DVD-VR470M
DVD-VR475M

DVD & VCR
user manual

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Getting Started

Warning

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Do not install this equipment in a confined space such as a bookcase or similar unit.

WARNING : To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION : DVD Recorder & VCR USES AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE DVD Recorder & VCR CORRECTLY AS INSTRUCTED.

CAUTION
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

This product satisfies CE regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

IMPORTANT NOTE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug. If it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains jack, as there is a risk of shock hazard from the bared flexible cord.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

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No rights are granted for commercial use.
The licence does not cover any product unit other than this product unit and the licence does not extend to any unlicenced product unit or process conforming to ISO/IEC 11172-3 or ISO/IEC 13818-3 used or sold in combination with this product unit. The licence only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/IEC 11172-3 or ISO/IEC 13818-3. No rights are granted under this licence for product features or functions that do not conform to the ISO/IEC 11172-3 or ISO/IEC 13818-3.

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Precaution

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Handling Cautions

- Before connecting other components to this DVD Recorder & VCR, be sure to turn them all off.
- Do not move the DVD Recorder & VCR while a disc is being played, or the disc may be scratched or broken, the DVD Recorder & VCR internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the DVD Recorder & VCR.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this DVD Recorder & VCR. If this occurs, turn the DVD Recorder & VCR off and on again with the **STANDBY/ON** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The DVD Recorder & VCR will operate normally.
- Be sure to remove the disc and turn off the DVD Recorder & VCR after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the DVD Recorder & VCR for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

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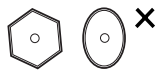
Disc Handling

- Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this DVD Recorder & VCR may be damaged.



Holding discs

- Avoid touching the surface of a disc where recording is performed.

DVD-RAM, DVD±RW and DVD±R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1 where available). Do not use cleaners or cloths for CDs to clean DVD-RAM/DVD±RW/±R discs.

DVD-Video, Audio-CD

- Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs

- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- Do not load warped or cracked discs.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.
- If you move your DVD Recorder & VCR suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. If this occurs, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again.

Disc Specifications

- DVD-VR470M
  This unit allows you to record and playback high quality digital images on a DVD-RAM/DVD-RW/DVD-R disc. You can record and edit digital video on DVD-RAM/DVD-RW/ DVD-R discs. (DVD+RW/DVD+R discs can be played, but cannot be recorded.).
- DVD-VR475M
  This unit allows you to record and playback high quality digital video on DVD-RAM/DVD±RW/DVD±R discs. You can record and edit digital images on DVD-RAM/ DVD±RW/DVD±R discs as if they were VCR tapes.

Disc Type

◆ DVD-Video

- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby digital surrounding, allowing you to enjoy vivid and clear theatre quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD-RW(V)/-R(V)/+R recorded in Video Mode is finalised, it becomes DVD-Video.

◆ Audio CD

- An audio disc on which 44.1 kHz PCM Audio is recorded.
- Plays CD-DA format audio CD-R and CD-RW discs.
- The unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

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◆ CD-R/-RW

- Use a 700MB (80 minutes) CD-R/-RW disc. If possible, do not use a 800MB (90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early playback time, all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.

◆ DVD+R Disc Playback and Recording

- Once a DVD+R recorded & VCR in Video Mode is finalised, it becomes DVD-Video.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programmes and erasing programmes before finalising.
- When programming is erased from a DVD+R, that space does not become available. Once an area on a DVD-R is recorded on, that area is no longer available for recording, whether the recording is erased or not.
- It takes about 30 seconds for the unit to complete recording management information after recording finishes.
- This product optimizes the DVD+R for each recording. Optimizing is carried out when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is carried out too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD+R discs recorded and finalised with a Samsung DVD video recorder. It may not be able to play some DVD+R discs depending on the disc and the condition of the recording.

◆ DVD-RW/-R Disc Playback and Recording

- Recording and playback can be performed on DVD-RW/-R discs in both the Video and VR Modes.
- Once a DVD-RW/-R recorded in both the Video and VR Modes is finalised, you cannot perform additional recording.
- Once a DVD-RW/-R recorded in Video Mode is finalised, it becomes DVD-Video.
- In both modes, playback can be performed before and after finalisation, but additional recording, deleting and editing can not be performed after finalisation.
- If you want to record the disc in VR Mode and then record in V Mode, be sure to execute Format. Be careful when executing Format because all the recorded data may be lost. You can change the disc mode only once. This can be done when unused DVD-R disc is inserted.
- **DVD-RW/-R (VR mode)**
  * You can record multiple titles, edit, delete, partial delete, create a playlist, etc. A disc that is recorded in this mode may not be played by any other DVD Recorder.
- **DVD-RW/-R (Video mode)**
  * The disc can be played by an other DVD players once it has been finalised.
  * If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalised, it cannot be played or recorded on by this DVD Recorder.
  * When programming is erased from a DVD-R, that space does not become available. Once an area on a DVD-R is recorded on, that area is no longer available for recording, whether the recording is erased or not.

◆ DVD+R Disc Playback and Recording

- Once a DVD+R is recorded and fi nalised, it is playable in a standard DVD player.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programmes and erasing programmes before fi nalising.
- When programming is erased from a DVD+R, that space does not become available. Once an areaon a DVD+R is recorded on, that area is no longer available for recording, whether the recording iserased or not.
- It takes about 30 seconds for the unit to update the recorded information after recording fi nishes.
- This product optimizes the DVD+R for each recording. Optimizing is executed when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is performed too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD+R discs recorded and fi nalised with a Samsung DVD video recorder. It may not be able to play some DVD+R discs depending on the disc and the condition of the recording.

◆ DVD+RW Disc Playback and Recording

- With DVD+RW discs, there is no difference between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode).
- Finalising is generally unnecessary when using a DVD+RW disc.

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COPY PROTECTION

- Many DVD discs are encoded with copy protection.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorised by Macrovision Corporation, is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

◆ DVD-RAM Disc Playback

- You cannot play a DVD-RAM in most DVD players due to compatibility issues.
- Only DVD-RAM standard Version 2.0. discs can be played in this unit.
- For cartridge type DVD-RAM discs, remove the cartridge and use the disc only.
- DVD-RAM recorded on this unit may not work with other DVD Players. To determine compatibility with these DVD-RAM discs, refer to the user's manual for the player.

Protection

This DVD Recorder & VCR can allow you to protect the contents of your discs, as described below.

- Programme-protected : See page 72 "Locking (Protecting) a Title"
- Disc-protected : See page 78 "Disc Protection"

✳ DVD-RAM/DVD±RW/±R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.

✳ For more information on DVD recording compatibility, consult your DVD-RW/-R manufacturer.

✳ Use of poor quality DVD-RW/-R discs may cause following unexpected problems including, without limitation, recording failure, loss of recorded or edited materials or damage to the DVD Recorder & VCR.

Disc Format

◆ Using MP3 disc

- Only CD R discs with MP3 files recorded with ISO9660 or JOLIET format can be played.
- Only MP3 files with the ".mp3" or ".MP3" extension can be played.
- Playable bit-rate range is from 56 Kbps to 320 Kbps.
- Each folder can have up to 500 items including files and sub folders.
- DVD-RAM/DVD±RW/DVD±R discs that contain MP3 files can be played back.

◆ Using JPEG disc

- CD-R/-RW, DVD-RAM/±RW/±R recorded with UDF, ISO9660 or JOLIET format can be played.
- Only JPEG files with the ".jpg" or ".JPG" extension can be displayed.
- Each folder can have up to 500 items including files and sub folders.
- MOTION JPEG and progressive JPEG are not supported.

◆ Using MPEG4 disc

- Video File with following extensions can be played. : .avi, .divx, .AVI, .DIVX
- DivX Video (Codec) Format : DivX 3.11 DivX 4.x DivX 5.x (without QPEL and GMC)
- DivX Audio (Codec) Format : MP3, MPEG1 Audio Layer 2, LPCM, AC3
- Supported subtitle file formats: .smi, .srt, .sub, .psb, .txt, .ass
- Each folder can have up to 500 items including files and sub folders.
- You cannot play back the disc that is larger than a 720 x 576 pixel resolution.

Do not use the following discs!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM discs should not be used in this product.

  [Note]

  Disc types that can be played : CD/CD-R/-RW/MP3/JPEG/DVD-Video/DVD-RAM/±RW/±R.
  For a DVD-RW/-R disc, which has been recorded in Video Mode on another component, it can play only when finalised.
- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No disc." or "Please check the regional code of the disc." will be displayed.
- If your DVD-RAM/±RW/±R discs is an illegal copy or is not in DVD video format, it may also not be playable.

◆ Disc compatibility

- A 8X speed DVD+RW or greater disc can be played, but maximum recording speed is 4x.
- Not all brands of discs will be compatible with this unit.

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General Features

• DVD-VR470M
This unit allows you to record and playback high quality digital images on a DVD-RAM/DVD-RW/DVD-R disc.
You can record and edit digital video on DVD-RAM/DVD-RW/DVD-R discs as if they were VCR tapes.
(DVD+RW/DVD+R discs can be played, but cannot be recorded.)

• DVD-VR475M
This unit allows you to record and playback high quality digital video on DVD-RAM/±RW/±R discs.
You can also edit digital images on DVD-RW discs.

High quality digital audio and video recording and playback

You can record up to 14-hours on a dual-layer 8.5GB DVD-R disc, and up to 8-hours on a 4.7GB DVD-RW/-R disc, depending on the recording mode.

Selectable Recording Mode

You can set your DVD Recorder & VCR to one of eight different recording modes, each varying in recording quality and length. Select a recording mode according to the time and picture quality you need.
For example, if picture quality is your top priority, select "HQ" (high quality). If recording time is your priority, "SLP" can be a possible choice. (Analogue mode only)
DVB-T recording is possible only on AUTO mode.
The dual layer DVD-Rs have approximately double the capacity of single layer DVD-Rs.

Automated Quality Adjustment for Timer Recording

If AUTO mode is selected, the video quality is adjusted automatically so that all video for the scheduled time can be recorded onto the free disc space.
(See page 61)

Creating a DVD video title using DVD-RW/-R disc

With the DVD Recorder & VCR, you can create your own DVD Video titles on 4.7 GB DVD-RW/-R discs.

Copying data from a digital camcorder using a DV input jack

Record DV Device video onto DVD-RW/-R discs using the DV input jack (IEEE 1394-4pin/4pin). (See pages 59, 69)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 108-MHz DAC and 2D Y/C Separating Circuitry provides the highest image playback and recording quality. (See page 36)

DivX Certification

DivX, DivX Certified, and associated logos are trademarks of DivX Networks, Inc and are used under licence.

EZ Record Mode

This function allows you initialise and Finalise a disc automatically. (See page 28,29)

EPG functions

EPG stands for Electronic Programme Guide.
Usig your remote control you will be able to view what programmes are on, organize what channels you would like to see in your EPG and use the Auto and Manual scan facilities.

HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the VCR & DVD RECORDER to your TV. (DVD-VR475 only)

Anynet+(HDMI CEC)

Anynet+ is a function that can be used to operate the recorder using a Samsung TV remote control, by connecting the HDD & DVD RECORDER to a SAMSUNG TV using an HDMI Cable. (This is only available with SAMSUNG TVs that support Anynet+.)

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Before reading the user's manual

Make sure to check the following terms before reading the user manual.

Icons that will be used in manual

Icon	Term	Definition
DVD-VIDEO	DVD	This involves a function available on DVD or DVD+R/-RW(V)/-R(V) discs that have been finalised.
DVD-RAM	RAM	This involves a function available on DVD-RAM.
DVD-RW	-RW	This involves a function available on DVD-RW.
DVD-R	-R	This involves a function available on DVD-R.
DVD+RW	+RW	This involves a function available on DVD+RW.
DVD+R	+R	This involves a function available on DVD+R.
CD	CD	This involves a function available on a data CD (CD-R or CD-RW).
JPEG	JPEG	This involves a function available on CD-R/-RW, DVD±R/±RW, DVD-RAM discs.
MP3	MP3	This involves a function available on CD-R/-RW, DVD±R/±RW discs.
MPEG4	MPEG4	This involves a function available on CD-R/-RW, DVD±R/±RW discs.
	VHS	This involves a function available in VIDEO Tape.
	Caution	This involves a case where a function does not operate or settings may be cancelled.
	NOTE	This involves tips or instructions on the page that help each function operate.
	One-Touch button	A function that can be operated by using only one button.

About the use of this user's manual

1) Be sure to be familiar with Safety Instructions before using this product. (See pages 2~6)
2) If a problem occurs, check the Troubleshooting. (See pages 82~84)

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How to use the DVD Recorder & VCR

Step 1 : Select the disc type

Please check available disc type before recording.

- DVD-VR470M

(DVD+RW/DVD+R discs can be played, but cannot be recorded)

- DVD-VR475M

If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD-RW type disc. If you want to save a recording without any changes, choose a non rewritable DVD-R.

Step 2 : Format the disc to start recording

Unlike a VCR, the DVD Recorder & VCR starts formatting when an unused disc is inserted. This is required for the preparation of recording on a disc.

Using a DVD-RAM/±RW/+R

When an unused DVD-RAM/±RW/+R disc is first inserted, the message "Unformatted Disc. Formatting. Please wait." will be displayed.

Using a DVD-R

It is not necessary to format a new DVD-R disc. When it is inserted, it will operate in Video mode.
It can also be formatted in VR mode in the setup menu.
You can change the disc mode only once when an unused DVD-R disc is inserted.

- You can only use either the VR or Video mode on a DVD-RW/-R, but not both at the same time.
- You can format a DVD-RW /-R to V or VR mode using **Disc Setting**. It should be noted that the disc's data will be lost when changing formats.

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Step 3 : Recording

There are two different recording methods, Direct Recording (recording a programme you are currently watching) and Timer Recording. Timer recording is classified as follows:

Recording mode : HQ (high quality mode), HSP, SP (standard quality mode), LSP, ESP, LP, EP, SLP (Long duration mode) according to the recording mode.

When recording is set in the AUTO mode, the best quality picture is recorded with regards to the remaining time on the disc.

IN DVB-T mode, the recording is only AUTO mode.

Step 4 : Playing

To start playback, select the title you want to play from the title list.

A DVD consists of sections called titles, and sub- sections called chapters.

During recording, a title is created between two points where you start and stop recording. Chapters will be created automatically regardless of the disc type when it is set at the setup menu.

Step 5 : Editing a recorded disc

Editing on discs is easier than conventional video tapes. The DVD Recorder & VCR supports many different edit functions, possible only with DVDs.
With a simple and easy edit menu, you can operate various edit functions, such as delete, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RAM/-RW/-R in VR mode)

With this DVD Recorder, you can create a new playlist on a disc and edit it without the original, pre-existing recording.

Step 6 : Finalising & Playing on other DVD components

To play your DVD on other DVD components, finalising may be necessary. First, finish all editing and recording operations, then finalise the disc.

When using a DVD-RW/-R disc in VR Mode
Although finalising is generally unnecessary when playing the disc on a VR Mode compatible component, a finalised disc should be used for playback.

When using a DVD-RW/-R disc in Video Mode
The disc should be finalised first to enable playback on anything other than this DVD Recorder & VCR. No more editing or recording can be made on the disc once it has been finalised.
To enable recording on the disc again, the disc must be unfinalised.

When using a DVD+R disc
You should finalise the disc to play it on a component other than this DVD Recorder & VCR. You cannot edit or record on the disc once it has been finalised.

- You can finalise the disc automatically using EZ Record function. (See page 28, 29)

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Unpacking

Accessories

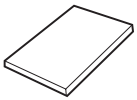
Check for the supplied accessories below.

Video/Audio Cable

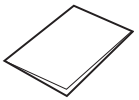
RF Cable for TV

Remote Control

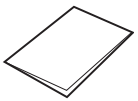
Batteries for Remote Control (AAA Size)



Instruction Manual



Quick Guide



Registration Card

Preparing the Remote Control

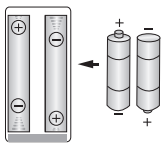
Install Batteries in the Remote Control

- Open the battery cover on the back of the remote control.
- Insert two AAA batteries. Make sure that the polarities (+ and –) are aligned correctly.
- Replace the battery cover.

If the remote does not operate properly :

- Check the polarity + – of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations. Do not put them in the household trash.



To determine whether your television is compatible with the remote control, follow the instructions below.

1. Switch your television on.
2. Point the remote control towards the television.
3. Press and hold the **TV** button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate number buttons.

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Controllable TV Codes

BRAND	BUTTON
SAMSUNG	TV +01, +02, +03, +04, +05, +06, +35
AKAI	TV +12
BANG & OLUFSEN	TV +22
BLAUPUNKT	TV +09
BRANDT	TV +14
BRIONVEGA	TV +22
CGE	TV +21
CONTINENTAL EDISON	TV +24
FERGUSON	TV +14
FINLUX	TV +02, +17, +21
FISHER	TV +12
FORMENTI	TV +22
GRUNDIG	TV +09, +17, +21
HITACHI	TV +11, +13, +14, +24
IMPERIAL	TV +21
JVC	TV +32
LG	TV +02, +30
LOEWE	TV +02
LOEWE OPTA	TV +02, +22
METZ	TV +22
MITSUBISHI	TV +02, +16
MIVAR	TV +21, +29
NOKIA	TV +23
NORDMENDE	TV +13, +14, +22, +24
PANASONIC	TV +08, +23, +24, +25, +26, +27
PHILIPS	TV +02, +20, +22
PHONOLA	TV +02, +20, +22
PIONEER	TV +14, +23
RADIOLA	TV +02, +20
RADIOMARELLI	TV +22
REX	TV +23
SABA	TV +13, +14, +22, +23, +24
SALORA	TV +23
SANYO	TV +12, +16
SCHNEIDER	TV +02
SELECO	TV +23
SHARP	TV +10, +16, +31
SIEMENS	TV +09
SINGER	TV +22
SINUDYNE	TV +22
SONY	TV +15, +16
TELEAVA	TV +14
TELEFUNKEN	TV +14, +24, +28
THOMSON	TV +13, +14, +24
THOMSON ASIA	TV +33, +34
TOSHIBA	TV +07, +16, +17, +18, +19, +21
WEGA	TV +22
YOKO	TV +02

Result : If your television is compatible with the remote control, it will switch off.
It is now programmed to operate with the remote control.

- If several codes are indicated for your television brand, try each one in turn until you find one that works.
- If you replace the remote control's batteries, you must set the brand code again.

Then you can control the television using the following buttons after pressing the TV button.

Button	Function
TV STANDBY/ON	Used to switch the television on and off.
INPUT SEL.	Used to select an external source.
TV VOL (+ –)	Used to adjust the volume of the television.
PROG/TRK (∧∨)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.
Number	Used to input number directly.

- The functions listed above will not necessarily work on all televisions. If you encounter problems, operate the television directly.

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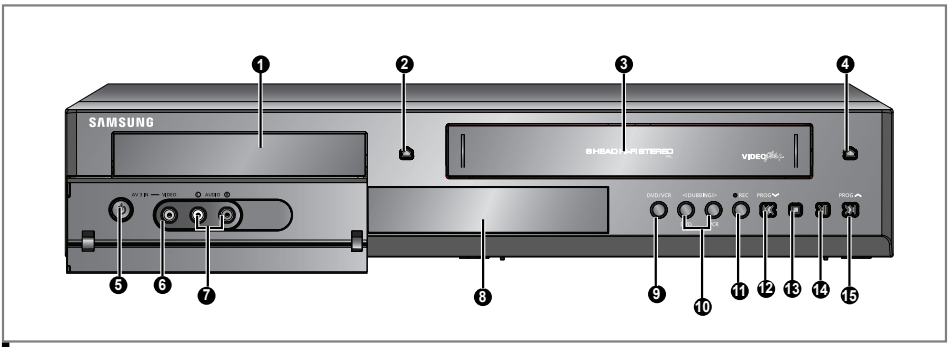
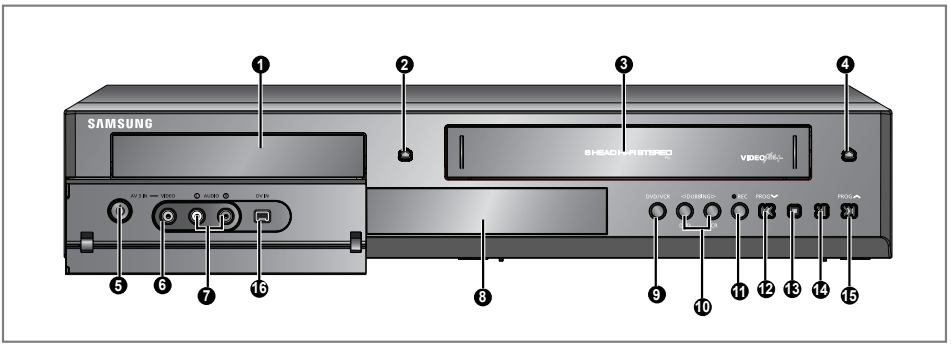
Description

Front Panel (DVD-VR470M)



Front Panel (DVD-VR475M)



1. DVD DECK
2. DVD OPEN/CLOSE BUTTON
3. VCR DECK
4. VCR EJECT BUTTON
5. STANDBY/ON BUTTON
6. VIDEO INPUT JACK (AV3 IN)
7. AUDIO INPUT JACK (AV3 IN)
8. FRONT PANEL DISPLAY
9. DVD/VCR SELECT BUTTON
10. DUBBING BUTTONS
11. RECORD BUTTON
12. PROG ∨, SKIP BUTTONS
13. STOP BUTTON
14. PLAY/PAUSE BUTTON
15. PROG ∧, SEARCH BUTTONS
16. DV INPUT JACK (DVD-VR475M only)

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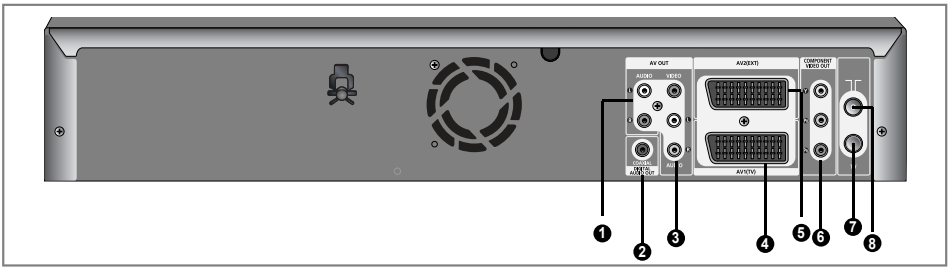
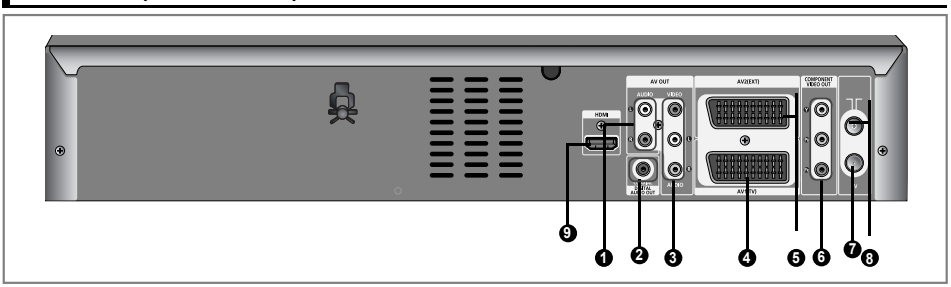
Rear Panel (DVD-VR470M)



1. AUDIO L, R OUT JACKS
2. DIGITAL AUDIO OUT JACK (COAXIAL)
3. AUDIO/VIDEO JACK (AV OUT)
4. AV1 (TV) IN/OUT SCART
5. AV2 (EXT) SCART
6. COMPONENT VIDEO OUT JACKS
7. OUT TO TV CONNECTOR
8. AERIAL IN CONNECTOR
9. HDMI JACK (Only DVD-VR475M)

■ The Antenna connection does not pass the output signal of the DVD Recorder & VCR.
To watch output signal of the DVD Recorder & VCR, you must connect audio/video or Scart cables.

Rear Panel (DVD-VR475M)



Front Panel Display

1. DVD or CD media is loaded.
2. Record function is activated.
3. DVD is activated.
4. VCR is activated.
5. The time, counter position or current deck status is indicated.
6. When you set a Timer recording, this indicator is illuminated.
7. DVD or CD media is loaded.

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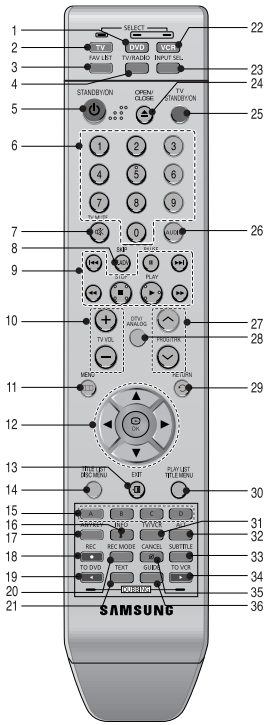
Tour of the Remote Control

Your DVD Recorder & VCR remote control will work with Samsung televisions and compatible brands.



1. DVD Button
Press this when you use a DVD.

2. TV Button
Press this to operate TV.

3. FAV LIST
When you use DTV, press this button to switch between favorite list.

4. TV/RADIO button
In DTV mode, press this to switch TV or Radio mode.

5. STANDBY/ON Button
Used to turn the power on or off.

6. NUMBER Button
Use to input the value of operating needed (Example: Find track, chapter, timer, etc.)

7. TV MUTE Button
This operates as sound mute (TV mode).

8. F.ADV/SKIP Button
Used to advance a sequence frame by frame.

9. Playback-related Buttons
Forward/Rewind, Search, Skip, Stop, Play, Pause, REC PAUSE

10. TV VOL (Volume) Button
TV volume adjustment

11. MENU Button
Brings up the DVD Recorder & VCR's setup menu.

12. OK/DIRECTION Buttons (▼, ▲, ◄, ► Buttons)
This button functions as a toggle switch.

13. EXIT Button
Press this when you want to exit from menu.

14. TITLE LIST/DISC MENU Button
Press this to enter the Title List/Disc menu.

15. A, B, C, D button
Press this when you use DTV functions.

16. *i* INFO button
Press to display the programme information box in the screen when you use DTV.

17. ANYKEY Button
Press this to view the status of the disc that is being played.

18. REC Button
Press this to make a recording on DVD-RW/-R discs and VHS Video tape.

19. TO DVD dubbing Button
Press this when you dubbing from the VCR to the DVD.

20. REC MODE Button
Press this to set the desired recording time and picture quality.

21. TEXT Button
When you use DTV, press this button to select the Teletext OSD.

22. VCR Button
Press this when you use a VCR.

23. INPUT SEL. Button
Select input signal in external input mode (PR, AV1, AV2, AV3 or DV input).

24. OPEN/CLOSE Button
To open and close the disc tray.

25. TV STANDBY/ON Button
Turns the power on or standby for televison

26. AUDIO Button
Use this to access various audio functions on a disc (DVD mode).

27. PROG/TRK Button
Press this to select a TV channel
/Press this to remove the white line. (VCR mode)

28. DTV/ANALOG Button
Select Digital/Analogue broadcasting.

29. RETURN Button
Returns to previous menu.

30. PLAY LIST/TITLE MENU Button
Press this to enter the Edit playlist/Title menu.

31. TV/VCR Button
Press this when you want to switch between TV or VCR

32. TIMER REC Button
Press to directly enter the Timer Recording Mode menu.
Allows you to repeat a title, chapter, track or disc.

33. SUBTITLE Button
Press this to switch the DVD's subtitle language.

34. TO VCR dubbing Button
Press this when you dubbing from the DVD to the VCR.

35. CANCEL Button
use to remove menus or status display from the screen

36. GUIDE Button
Press this to switch programme guide.

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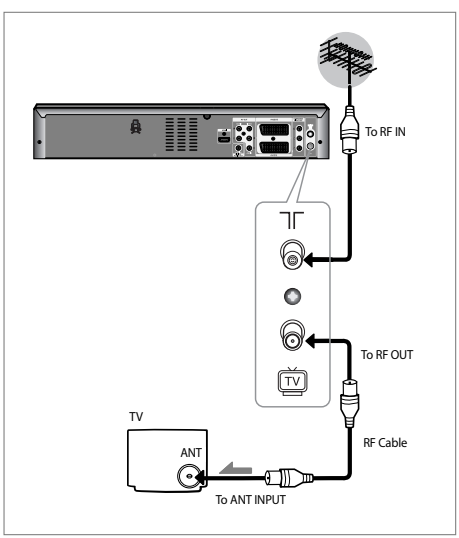
Connecting DVD Recorder & VCR to the TV using the RF Cable

- Make sure that both the television and the DVD Recorder & VCR are switched off before connecting the cables.

1. Remove the aerial or network input cable from the television.
2. Connect this cable to the 75Ω aerial jack marked ⊓⊢ on the rear of your DVD Recorder & VCR.
3. Plug the RF Cable supplied into the TV jack on your DVD Recorder & VCR.
4. Plug the other end of the RF Cable into the connector previously used for the aerial on the television.

- The RF cable connection of this product sends only signal of TV. You must connect SCART cable or Audio/Video cables to watch a DVD and video tape from DVD Recorder & VCR.



Connecting the SCART Cable

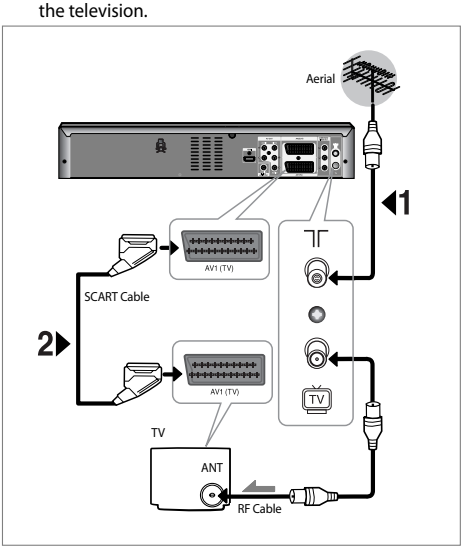
Case 1 : Connecting DVD Recorder & VCR to the TV using a SCART Cable

You can connect your DVD Recorder & VCR to the television using a SCART cable if the appropriate input is available on the television. You thus:

- Obtain better quality sound and pictures
- Simplify the setting up procedure of your DVD Recorder & VCR

- Regardless of the type of connection chosen, you must always connect the RF Cable. Otherwise, no picture will be visible on the screen when the DVD Recorder & VCR is switched off.
- Make sure that both the television and the DVD Recorder & VCR are switched off before connecting the cables.

1. Connect the Aerial Cable.
2. Connect one end of a SCART cable (not supplied) to the AV1 (TV) jack on the rear of the DVD Recorder & VCR.
3. Plug the other end into the appropriate connector on the television.



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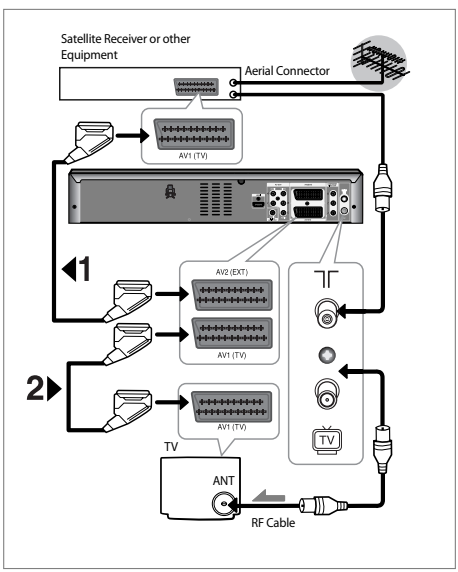
Case 2 : Connecting DVD Recorder & VCR to a Satellite Receiver or Other Equipment

You can connect your DVD Recorder & VCR to a Satellite receiver or other DVD Recorder & VCR using a SCART cable if the appropriate outputs are available on the equipment chosen.

1. **AV2 IN (EXT): By means of 21-pin Scart Cable**
   Plug a SCART Cable (not supplied) with satellite receiver or other equipment into the AV2 (EXT) jack on the rear of the DVD Recorder & VCR.
   After making this connection, select the source by pressing the **INPUT SEL.** button for the AV2 input sources.

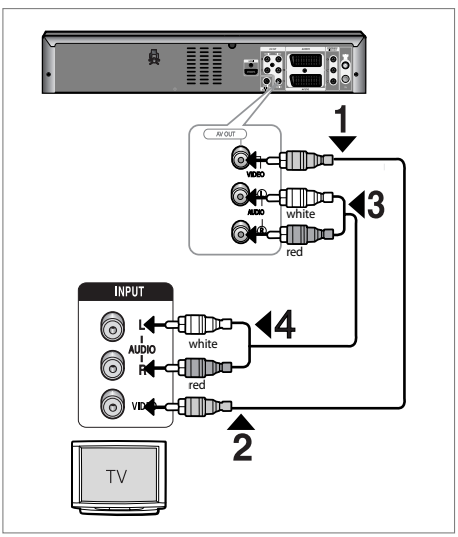
2. **AV1 (TV) : By means of 21-pin Scart Cable**
   Connect the end of the SCART cable to the AV1 (TV) jack on the rear of the DVD Recorder & VCR. Plug the other end into the appropriate connector on the television.



Connecting the Audio/Video Cable

You can connect your DVD Recorder & VCR to the television using the audio/video cable if the appropriate input is available on the television.

1. Connect one end of the supplied video cable into the **VIDEO** output jack on the rear of the DVD Recorder & VCR.
2. Plug the other end of the video cable into the appropriate input connector on the television.
3. Connect one end of the audio cables supplied into the **AUDIO** output jacks on the rear of the DVD Recorder & VCR.
   • Take care to respect the colour coding of the up and down channels.
4. Plug the other end of the audio cables into the appropriate input connectors on the television.



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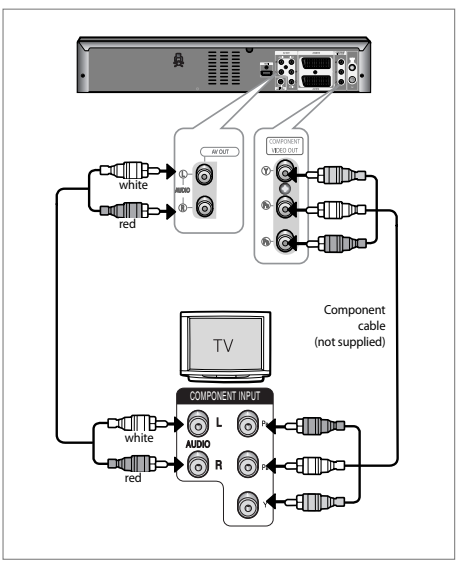
Connecting the Component Video Cable

You will enjoy high quality accurate colour reproduction images. Component video seperates the picture element into black and white(Y), blue(P_B), red(P_R) signals to present most clear and clean images.

1. Connect Component video cable (not supplied) between the **COMPONENT VIDEO OUT** jacks on the rear of the DVD Recorder & VCR and **COMPONENT VIDEO IN** jacks on the rear of the TV.
2. Connect audio cables between the audio output jacks on the rear of the DVD Recorder & VCR and **AUDIO IN** jacks on the rear of the TV.
   - Take care to respect the colour coding of the up and down channels.
   - Press the input selector on your TV remote control until the Component signal from the DVD Recorder & VCR appears on your TV screen.



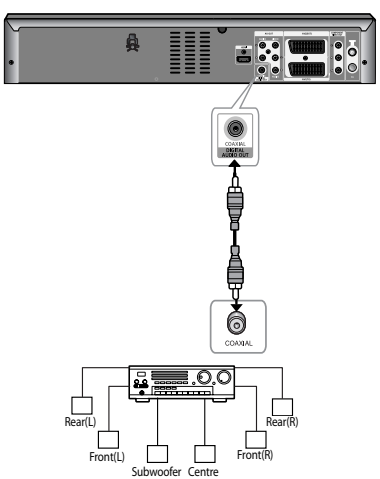
AV Receiver Connections

To take full advantage of the movie theatre experience that DVD offers, you may want to connect your DVD Recorder & VCR to a complete Surround Sound system, including an A/V Receiver and six Surround Sound speakers.
If your A/V receiver is equipped with a Dolby Digital Decoder, you have the option to bypass the DVD Recorder & VCR's built-in Dolby Digital Decoder. Use the Digital Audio Out connection below.
To enjoy Dolby digital or DTS sound, you must set up the audio settings. (See page 36)

Manufactured under licence from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of DTS, Inc.

1. Connect a Digital Audio coaxial cable (not supplied) from the Digital Audio Out jacks on the rear panel of the DVD Recorder & VCR to their corresponding Digital Audio Input jacks on your A/V Receiver:



To Digital Audio Input of an A/V Receiver with a Dolby, MPEG2 or DTS Digital Decoder

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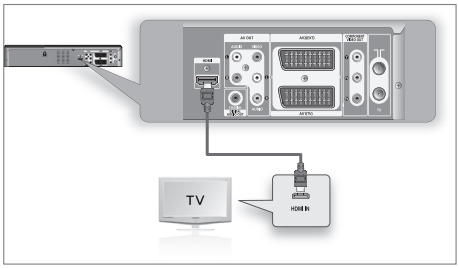
Connecting HDMI/DVI to a TV (DVD-VR475M only)

Case 1 : Connecting to a TV with HDMI Jack

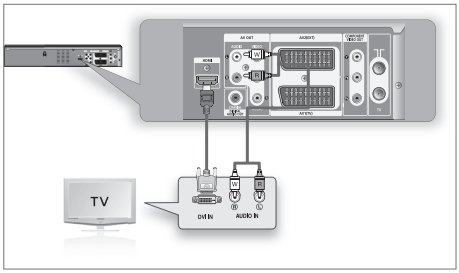
- Using the HDMI cable (not supplied), connect the HDMI OUT jack on the rear of the DVD Recorder & VCR to the HDMI IN jack of your TV.
- Press the input selector on your TV remote control until the HDMI signal from the DVD Recorder & VCR appears on your TV screen.



- If the DVD Recorder & VCR is connected to your TV in HDMI 1080p output mode, you must use High speed(category2) HDMI cable.

Case 2 : Connecting to a TV with DVI Jack

- Using the DVI Adapter Cable (not supplied), connect the HDMI OUT jack on the rear of the DVD Recorder & VCR to the DVI IN jack of your TV.
- Using the supplied audio cable, connect the AUDIO (red and white) OUT jacks on the rear of the DVD Recorder & VCR to the AUDIO (red and white) IN jacks of your TV. Turn on the DVD Recorder & VCR and TV.
- Press the input selector on your TV remote control until the DVI signal from the DVD Recorder & VCR appears on your TV screen.



- Depending on the HDMI device (TV/HDMI Receiver) you use, audio may not be supported. If TV does not support Dolby digital/DTS, Audio output is not available when you set Digital output as Bitstream or select DTS On in Audio setup menu. In this case, set the digital audio output to PCM or DTS off.
- If you connect the HDMI cable between Samsung TV, you can operate easily DVD Recorder & VCR using the TV remote control. (This is only available with Samsung TVs that support Anynet+(HDMI-CEC).) (See pages 30~31)
- Please check the Anynet+ logo (If your TV has an Anynet+ logo, then it supports Anynet+ function.)

- To change HDMI output resolution, see page 34.
- HDMI (High Definition Multimedia Interface)
  HDMI is an interface to enable the digital transmission of video and audio data with just a single connector. Since HDMI is based on DVI, it is completely compatible with DVI. The only difference between HDMI and DVI is that HDMI supports multi-channel audio. Using HDMI, the DVD Recorder & VCR transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- HDMI connection description
  HDMI connector - Both uncompressed video data and digital audio data (LPCM or Bit Stream data).
  - Though the DVD Recorder & VCR uses a HDMI cable, the DVD Recorder & VCR outputs only a pure digital signal to the TV.
  - If TV does not support HDCP (High-bandwidth Digital Content Protection), snow noise appears on the screen.
- Why does Samsung use HDMI?
  Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD Recorder & VCR) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the DVD Recorder & VCR to your TV.
- What is the HDCP?
  HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD, etc) and a display device (TV, projector, etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

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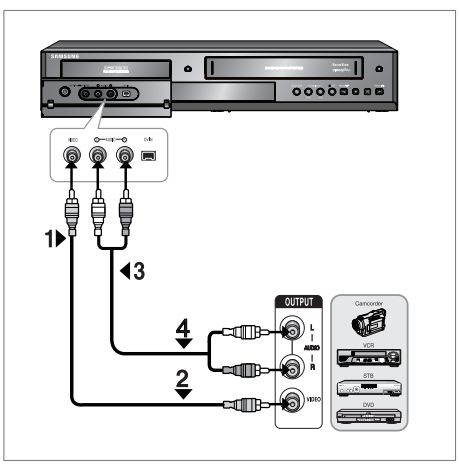
Connecting External Devices

Case1 : Connecting an external devices to the AV3 jacks

You can connect other audio/video equipment to your DVD Recorder & VCR using audio/video cables if the appropriate outputs are available on the equipment chosen.

1. Connect one end of the video cable into the **VIDEO** input jack on the front of the DVD Recorder & VCR.
2. Plug the other end of the video cable into the appropriate output connector on the other system (VCR or Camcorder, etc).
3. Connect one end of the audio cable supplied into the **AUDIO** input jacks on the front of the DVD Recorder & VCR.
   • Take care to respect the colour coding of the left and right channels.
4. Plug the other end of the audio cable into the appropriate output connectors on the other system (VCR or Camcorder, etc).



Case 2 : Connecting a DV Device to the DV IN jack (DVD-VR475M only)

If your DV Device has a DV output jack, connect it to the DV input jack of your DVD Recorder & VCR.

• If your camcorder has a DV output jack, connect it to the DV input jack of your DVD RECORDER &VCR, see page 59 or 69 for more information.

■ If the input is not selected automatically, use **INPUT SEL.** button to select proper input.

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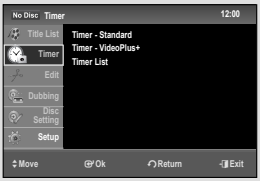
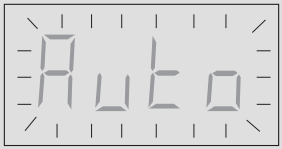


On-Screen Menu Navigation

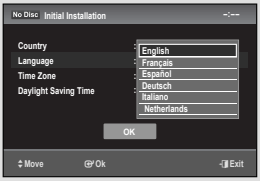
The on-screen menus allow you to enable or disable various functions on your DVD Recorder & VCR.
Press the MENU button to open the on-screen menu and then use the following buttons to navigate through the on screen menus.

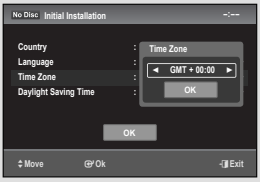
1. ▲▼ buttons
   Press these buttons on the remote control to move the selection bar ▲▼ to cycle through the menu options.
2. **OK** button
   Press this button on the remote control to confirm any new settings.
3. **RETURN** button
   Press this button on the remote control to return to the Previous menu screen displayed or to exit the on-screen menu.
4. **EXIT** button
   Press this button to exit the on-screen menu.

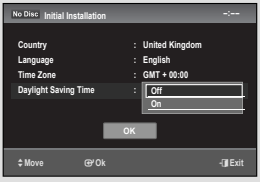


Plug & Auto Setup

Your DVD Recorder & VCR will automatically set itself up when it is plugged in for the first time. TV stations and clock will be stored in memory. The process takes a few minutes. Your DVD Recorder & VCR will then be ready for use.







1. Connect the RF cable as indicated on page 17.
   (Connecting Your DVD Recorder & VCR to the TV Using the RF Cable and scart cable.)
2. Plug the DVD Recorder & VCR into the mains. "Auto" in the front panel display flickers.
3. Press the **OK** button, then press the ▲▼ buttons to select the desired language option. Press the **OK** button.
4. Press the ▼ button, then press the **OK** button.
   Press the ◄► buttons to select the desired time zone option. Press the ▼ buttons to select **OK**, then press the **OK** button.
5. Press the ▼ button, then press the **OK** button.
   Press the ▲▼ buttons to select **On** or **Off**, then press the **OK** button.
6. Press the ▼ button to select **OK**, then press the **OK** button. Digital auto scan will be started.
   After digital auto scan is completed, analogue auto scan will be started.

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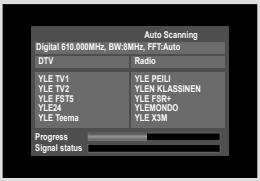
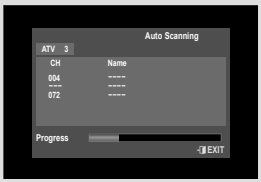


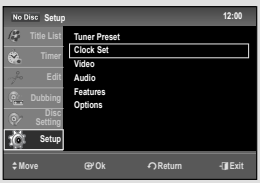


7. After auto channel scan is completed, auto clock setting will be started automatically after one minute. If you want to start auto clock setting immediately, press **OK** button.

8. Wait until current date and time are displayed automatically. If you want to exit auto clock setting, press **MENU** button.

9. Press the **OK** button to save clock set.

Clock Set

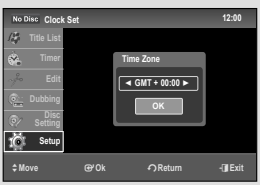


1. With the unit in Stop mode, press the **MENU** button.

2. Press the ▲▼ buttons to select **Setup**, then press the **OK** button.

3. Press the ▲▼ buttons to select **Clock Set**, then press the **OK** button.

Time Zone



To setup, follow steps 1~3

4. Press the ▲▼ buttons to select **Time Zone**, then press the **OK** button. Select the time zone of your area using the ◄► buttons, then select **OK** using ▲▼ button.

5. Press the **OK** button.

◆GMT (Greenwich Mean Time) Table

Country	GMT	City
United Kingdom, Portugal	GMT+0	Dublin, Edinburgh, London, Lisbon, Casablanca
France, Austria, Belgium, Demark, Germany, Netherlands, Italy, Norway, Spain, Sweden, Switzerland, Hungary, Czech Republic, Poland	GMT+1	Berlin, Stockholm, Rome, Vienna, Paris, Madrid, Prague, Warsaw, Brussels, Copenhagen, Oslo, Bern, Budapest, Prague
Finland, Turkey, Greece, Egypt, Eastern Europe, South Africa, Israel	GMT+2	Athens, Helsinki, Istanbul, Cairo, Pretoria

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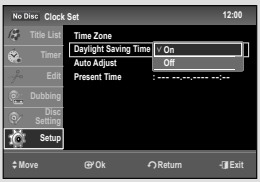
Daylight Saving Time

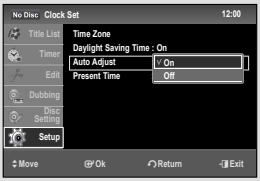


To setup, follow steps 1~3 in page 23.

4. Press the ▲▼ buttons to select **Daylight Saving Time**, then press **OK** button.
5. Select the **Auto**, **On** or **Off** using the ▲▼ buttons, then press the **OK** button.

Auto Adjust

Turns on the Auto Adjust function when a channel in your local area broadcasts a time signal.
The Auto Adjust function is activated whenever the recorder is turned off.

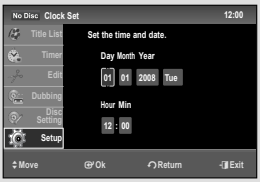


To setup, follow steps 1~3 in page 23.

4. Press the ▲▼ buttons to select **Auto Adjust**, the press the **OK** button.
5. Select the **Off** or **On** using the ▲▼ buttons, then press the **OK** button.

- If the recorder does not receive a time signal from any station, "Auto Adjust" returns to "Off" automatically and the display for setting the clock manually appears. See "Present Time" below.

Present Time



To setup, follow steps 1~3 in page 23.

4. Press the ▲▼ buttons to select **Present Time**, then press the **OK** button.
   Use the ▲▼◄ ► buttons to input Time, Date or Year. Use number buttons to input clock data directly.
5. Press the **OK** button, then the date and time will be saved. If you don't press the **OK** button, it will not be saved.

- You must have the RF cable connected to set the Auto Adjust. (See page 17)
- The DVD Recorder & VCR automatically sets the clock according to the time signal broadcast between the channels PR1 to PR5. If there is no clock in the analogue broadcast, the clock will be searched automatically in the DVB-T. If you do not need the Auto Adjust function, select **Off**.
- If there is a difference between the time information of analogue and the one of digital, you may not be able to view the contents of DVB-T normally.

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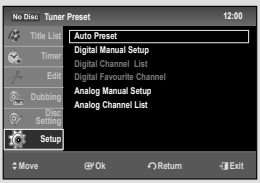
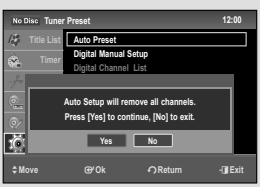
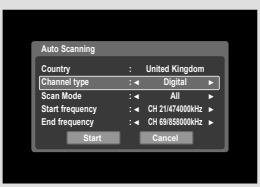
Tuner Preset

This menu consist of 5 sub-menus (Digital Channel List, Digital Favourite Channel, Auto Setup, Digital Manual Setup, Analogue Manual Setup Analog Channel List).

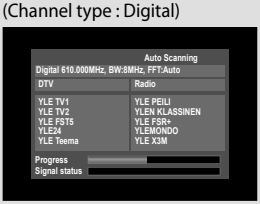
Auto Preset



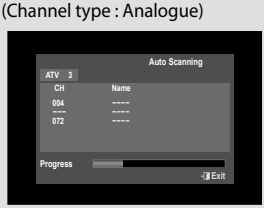




(Channel type : Digital)



(Channel type : Analogue)



This function automatically finds and tunes the channels for you.

1. Press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, and then press the **OK** button.
3. Press the ▲▼ buttons to select **Tuner Preset**, and then press the **OK** button.
4. Press the ▲▼ buttons to select **Auto Preset**, and then press the **OK** button. The Message "Auto Setup will remove all Channels. Press [Yes] to continue, [No] to exit.
5. Press the ◄► buttons to select **Yes**, and press the **OK** button.
6. Press the ▲▼◄► buttons to select **desired options**.

- **Channel type** : Press the ◄► buttons to select Digital, Analogue or All. (If you select Analogue, you can not select the Scan Mode, Start frequency and End frequency.)
- **Scan Mode** : - Only Free : Receives signals except for the scrambled signal.
  - All : Receives signals including the scrambled signal.
- **Start frequency/End frequency**

7. Press the ◄► button to select **Start**, and then press **OK** button. **Auto Scan** will be started.

■ You can select RADIO mode by pressing the **TV/RADIO** button on the remote control.
This button is used to toggle between the TV and RADIO modes.

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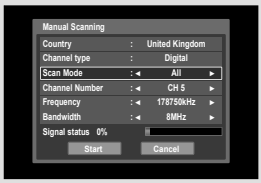
Digital Manual Setup



To tune-in new channels, the DVD Recorder & VCR has the Manual Scan option. This allowes the user to enter the channel data.

To setup, follow steps 1~3 in page 25.

4. Press the ▲▼ buttons to select **Digital Manual Setup**, and then press the **OK** button.

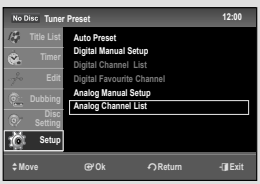
5. Select the **Channel Number** that you want to find using the ◄► buttons.
   Select **Frequency** and input the Frequency of the channel you want to find by pressing the number buttons.
   Select the **Bandwidth** that you want to use by find using the ◄► buttons. When the valid frequency is input, the bandwidth is selected automatically. You can select the value of 6.7 or 8 MHz. After select option. Press **OK** button to start the scanning process.

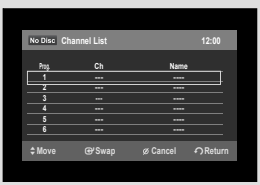
Analog Manual Setup

To setup, follow steps 1~3 in page 25.

4. Press the ▲▼ buttons to select **Analog Manual Setup**, and then press the **OK** button.
   - **In case of Edit** : You can add or edit programme(PR) information. After change PR information (**System, Program, Channel, AFT, Tuner Audio, Station Name**), press the **OK** button.
   - **Program** : Program position or input source.
   - **Channel** : Tune the channel using the ▲▼ buttons.
   - **AFT** : Fine tunes the channel to obtain a clearer picture.
   - **Tuner Audio** : Sets the channels for the NICAM broadcast. Normally, select "NICAM." If the sound from the NICAM broadcast is not clear, select "Standard" and then press the **OK** button.
   - **Station Name** : Display station name automatically detected in broadcasting signal. If not detected, you can edit name by using the ▲▼◄► buttons.

Analog Channel List





You can swap or delete the desired channel in the channel list.

To setup, follow steps 1~3 in page 25.

4. Press the ▲▼ buttons to select **Analog Channel List**, and then press the **OK** button.
   - **Swap** : Select the channel you want to swap by pressing the ▲▼ buttons, then press the **OK** button. Move the channel by pressing the ▲▼ buttons, and then press the **OK** button.
   - **Delete** : Select the channel you want to delete by pressing the ▲▼ buttons, then press the **CANCEL** button.

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Digital Channel List

This function is possible in DVB-T mode only.
This function is used to edit the favourite channel list or remove the channel.

To setup, follow steps 1~3 in page 25.

4. Press the ▲▼ buttons to select **Digital Channel List**, and then press the **OK** button.

5. To edit the current channel to the Digital Channel List, press the **RED(A)** button. To renumber a channel from the Digital Channel List, press the **GREEN(B)**, To remove a channel from the Digital Channel List, press the **YELLOW(C)** button. Press the OK button to watch that channel.

- Press **OK** button in the DVB-T view to display the Digital channel list.
- Press **FAV LIST** button 5 times in the DVB-T view to display the channel list.
- You can select RADIO mode by pressing the **TV/RADIO** button on the remote control.
  This button used to toggle the TV and RADIO mode.

Digital Favourite Channel

This function is possible in DVB-T mode only.
You can immediately register the present channel to the Digital Favourite Channel list.

To setup, follow steps 1~3 in page 25.

4. Press the ▲▼ buttons to select **Digital Favourite Channel**, and then press the **OK** button.

5. To add the current channel to the Digital Favourite channels, press the **GREEN(B)** button.
To remove a favourite channel from the Digital Favourite channel list, press the **RED(A)** button.
Press the **OK** button to watch that channel.

- You can also operate this function by pressing the **FAV LIST** button on the remote control.
- You can make up to 8 Digital favourite channel lists. (TV favourite list: 4, Radio favourite list: 4)

Setting up the Features

This function allows you to setup the Features setting.

1. With the unit in Stop mode, press the **MENU** button.

2. Press the ▲▼ buttons to select **Setup**, and then press the **OK** button.

3. Press the ▲▼ buttons to select **Features**, and then press the **OK** button.

4. Press the ▲▼ buttons to select the desired features options, and then press the **OK** button.

5. Press the ▲▼ buttons to select the desired item, and then press the **OK** button.

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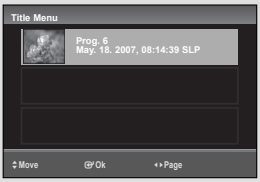
DVD Auto Chapter



DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

(V-mode) (DVD-VR475M only)

A DVD-Video consists of 'Titles' and 'Chapters'.
When you record one programme, it makes one Title.
If you use this function, the Title will be divided into Chapters.
Automatically divides a recording (a title) into chapters by inserting chapter markings at specified intervals. The markings are inserted while the recording is being made.

1. Press the ▲▼ buttons to select **DVD Auto Chapter**, and then press the **OK** button.
2. Press the ▲▼ buttons to select **Off**, **5Min** or **15Min**, and then press the **OK** button.
   - **Off** : No chapter mark is inserted.
   - **5Min** : Inserts chapter marks at approximately 5 minute intervals.
   - **15Min** : Inserts chapter marks at approximately 15 minute intervals.

   Press the **EXIT** button to exit the menu.
3. Press the **REC** button to start recording.
   (See page 56 about how to set recording mode)
4. Press the **STOP** button to stop recording.
5. To display the created titles, finalise the disc (See page 79) and then press the **TITLE MENU** button. The title menu will be displayed.

▪ The DVD Auto Chapter function does not work during Timer Recording or when you turn the power off.

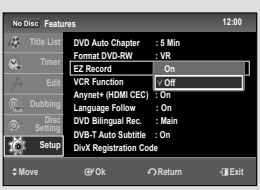
Format DVD-RW

DVD-RW

Before you insert an unused disc, you can select a recording format (VR mode or Video mode) according to your needs.
Selects the format for an unused DVD-RW, when first inserted.

- **VR** : Automatically formats the disc in VR mode
- **Video** : Automatically formats the disc in Video mode

EZ Record



DVD-RW DVD-R DVD+RW DVD+R

(V-mode) (DVD-VR475M only)

This function allows you to initialise and Finalise a disc automatically.

1. Press the ▲▼ buttons to select **EZ Record**, and then press the **OK** button.
2. Press the ▲▼ buttons to select **On**, and then press the **OK** button.
   Press the **EXIT** button to exit the menu.
3. Insert a disc.
   If the disc is new, It is initialised to V mode automatically. (DVD-RW only)
4. Press the **REC** button.

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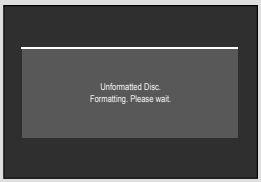


5. EZ Record function will automatically Finalise the disc under the following conditions.

- When you press the **OPEN/CLOSE** button on your DVD Recorder & VCR after recording on at least 70% of the disc. The tray will open after the disc has been finalised.
- The above feature is available only when a DVD-RW(V), DVD-R disc is inserted.

- If you select off, you must initialise (see page 54) and finalise the disc manually in the Disc Setting menu. (see page 79)
- The length of Recording is different according to recording mode. (see page 56)
- When the EZ Record set to 'On', disc will be formatted to V mode automatically although you select the VR mode in the Format DVD-RW option.

VCR Function Setting

This function allows you to setup the VCR setting.

1. With the unit in Stop mode/No Disc mode, and then press the **MENU** button.

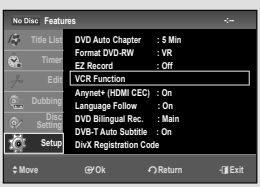
2. Press the ▲▼ buttons to select **Setup**, and then press the **OK** button.

3. Press the ▲▼ buttons to select **Features**, and then press the **OK** button.

4. Press the ▲▼ buttons to select **VCR Function**, and then press the **OK** button.

5. Press the ▲▼ buttons to select the desired VCR option, and then press the **OK** button.

6. Press the ▲▼ buttons to select the desired item, and then press the **OK** button.



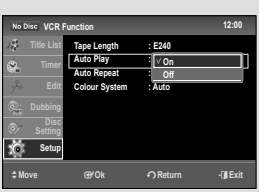
Tape Length

This information is usually printed on the tape box. The menu cycles through : E180, E240, E260, E300. Once the cassette type is set, the VCR can display the amount of time remaining on the tape when you press the INFO button.

Auto Play

If you want your videotapes to play automatically when you insert them, turn on Auto Play.

- On : The VCR will automatically begin playing a video tape when it is inserted, as long as the safety tab of the cassette has been removed.
- Off : Auto play is disabled.



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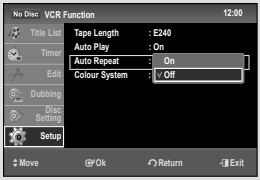
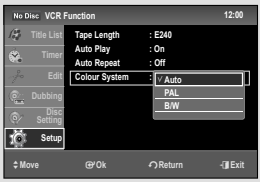


Auto Repeat

It sets the VCR to play a tape repeatedly (unless a tape control is activated : Stop, Fast Forward or Rewind).

- On
- Off



Colour System

Before recording or playing back a tape, you can select the required system standard.

- Auto : When playing back a tape, the system standard is automatically selected by the DVD Recorder & VCR.
- PAL : PAL video system
- B/W : Black and White.

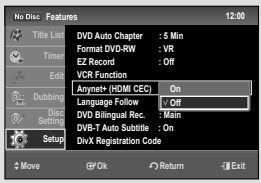
Anynet+(HDMI CEC) (DVD-VR475M only)

Anynet+ is a function that can be used to operate the recorder using a Samsung TV remote control, by connecting the DVD Recorder & VCR to a SAMSUNG TV using an HDMI Cable. (see pages 20) (This is only available with SAMSUNG TVs that support Anynet+.)

1. Press the ▲▼ buttons to select Anynet+(HDMI CEC), and then press the **OK** button. Anynet+(HDMI CEC) items will be displayed.

2. Press the ▲▼ buttons to select On, and then press the **OK** button

For using Anynet+(HDMI CEC)



1. Connect the DVD Recorder & VCR to the TV by using an HDMI cable. (see pages 20)

2. Set the Anynet+(HDMI CEC) to "On" on your DVD Recorder & VCR. (see above)

3. Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)

- You can operate the DVD Recorder & VCR by using TV remote control. (TV buttons that can be used to control the DVD Recorder & VCR: ⏮, ⏹, ⏯, ⏭, ⏏, ⏪, ⏩ and ◀, ▶ buttons, ⓪~⑨ button)
- When you press Anynet+ button on the TV remote control, the OSD to the left will appear.

  - Select Device : Use this option to select device.

  - Record : Use this option to start recording or stop recording.

  - Menu on Device : Same as MENU button ( ) on the DVD Recorder & VCR remote control.

  - Device Operation : Same as ANYKEY button ( ) on the DVD Recorder & VCR remote control.

- By pressing the PLAY button of the recorder while watching TV, the TV screen will change to the play screen.
- If you play a DVD when the TV power is off, the TV will power On.
- If you turn the TV off, the DVD Recorder & VCR will power off automatically.(When the DVD recorder & VCR is recording, it can't be powered off.)
- If you change from HDMI to other sources(Composite, Component, RF... etc) on the TV while playing the a DVD disc, the DVD Recorder & VCR will stop playing. The DVD Recorder & VCR may keep playing certain discs

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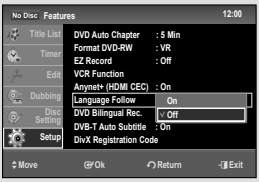
based on their content.

Language Follow (DVD-VR475M only)



This sets the menu language of external devices connected to a Samsung TV using Anynet +, so they match the language setting of the TV. To activate this, Anynet+ (HDMI CEC) must be set to On.

- On
- Off

DVD Bilingual Rec.

Select the sound to be recorded on the disc.
This setting is not necessary when recording on DVD-RWs(VR mode) that record both the main and sub sounds.

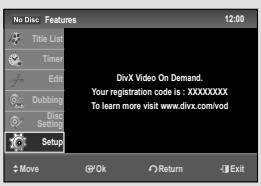
- **Main** : Records the main sound for bilingual programmes.
- **Sub** : Records the sub sound for bilingual programmes.

DVB-T Auto Subtitle

- **On** : The subtitle is shown automatically when receiving the DVB-T.
- **Off** : The function is cancelled.

▪ It is available when receiving a programme that has subtitles.

DivX Registration Code



▪ ***Please use the Registration code to register this DVD Recorder & VCR with the DivX Video On Demand format. For more information, visit www.divx.com/vod***

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Setting up the Options

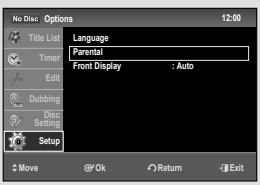
Language

If you set the language options, in advance, they will come up automatically every time you watch a movie.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, and then press the **OK** button.
3. Press the ▲▼ buttons to select **Options**, and then press the **OK** button.
4. Press the ▲▼ buttons to select **Language**, and then press the **OK** button. Language setup menu will be displayed.
5. Press the ▲▼ buttons to select the desired language option, press the **OK** button.
   - **OSD** : For the on-screen menu of your DVD Recorder & VCR.
   - **Disc Menu** : For the disc menu contained on the disc.
   - **Audio** : For the disc audio language.
   - **Subtitle** : For the disc subtitles.
   - **DVB-T Audio** : For the current broadcasting Programmes audio.
   - **DVB-T Subtitle** : For the current broadcasting Programmes subtitles.
6. Press the ▲▼ buttons to select the desired language, and then press the **OK** or ► button.

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- The selected language will only appear if it is supported on the disc and DVB-T.
- During the playback, press the **SUBTITLE** button to select DVD subtitle. Because the default of DVD subtitle is off, press the **SUBTITLE** button to select the desired subtitle.

Setting up the Parental Controls



DVD-VIDEO

The Parental function works in conjunction with DVDs and DVB-T that have been assigned a rating which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, and then press the **OK** button.
3. Press the ▲▼ buttons to select **Options**, and the press the **OK** button.
4. Press the ▲▼ buttons to select **Parental**, and then press the **OK** button. When you operate your DVD Recorder & VCR for the first time, the "Create the Password" message will be displayed.
5. Enter the 4-digit password using the number buttons on the remote control. The "Confirm the password" message will be displayed. Enter your password again.

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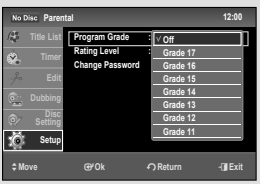
■ Press the **RETURN** button to return to the previous menu.
Press the **EXIT** ( ) button to exit the menu.

If you forgot your password

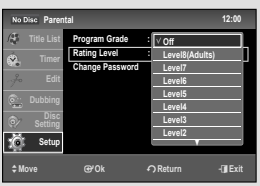
1. Remove the disc.
2. Press and hold the **PLAY** button on the front panel for 5 seconds or more. Tray is open and password will revert to factory settings.

Setting the Program Grade



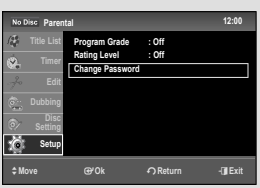
1. Press the ▲▼ buttons to select **Program Grade**, and then press the **OK** button.
2. Press the ▲▼ buttons to select the program grade you want, and then press the **OK** button.
For example, if you select up to 15, DVB-T that contain 16, 17 will not display. A larger number indicates that the program is intended for adult use only.

Setting the Rating Level



1. Press the ▲▼ buttons to select **Rating Level**, and then press the **OK** button.
2. Press the ▲▼ buttons to select the **Rating Level** you want, and then press the **OK** button.
For example, if you select up to 6, discs that contain 7, 8 will not play. A larger number indicates that the programme is intended for adult use only.

Changing the Password



1. Press the ▲▼ buttons to select **Change Password**, and then press the **OK** button.
2. Enter the 4-digit password using the number buttons on the remote control. The "Confirm the password" message will be displayed.
3. Enter your password again using the number buttons on the remote control.

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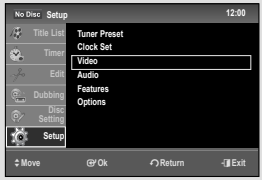
Setting up the Video Options



This function allows you to setup the video setting.
This function depends on disc type. It may not work for some disc types.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, and then press the **OK** button.
3. Press the ▲▼ buttons to select **Video**, and then press the **OK** button. Video setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired video option, and then press the **OK** button.
5. Press the ▲▼ buttons to select the desired item, and then press the **OK** button.

■ Press the **RETURN** button to return to the previous menu.
Press the **EXIT** ( ) button to exit the menu.

TV Type

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

- **16:9** : You can view the full 16:9 picture on your wide screen TV.
- **4:3 Letter Box** : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- **4:3 Pan Scan** : Select this for conventional size TV when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

Resolution (HDMI) (DVD-VR475M only)

This setting is used when the unit is connected by HDMI or DVI to Display devices (TV, Monitor, etc).

- **576p :** 720 x 576
- **720p :** 1280 x 720
- **1080i :** 1920 x 1080i
- **1080p :** 1920 x 1080p
- **Auto :** It will be set to the possible maximum resolution supported by the TV.
- Connect the DVD-VR475 to your TV via HDMI or DVI
  Set your TV's input to HDMI or DVI.
  576p ➞ 720p ➞ 1080i ➞ 1080p
  - If the DVD Recorder is connected to your TV with Component cables (no HDMI/DVI cable connected), the output resolution mode toggles between 576p/576i.
  - You can also watch VCR output through HDMI (Video is upscaled to a maximum 1080p).

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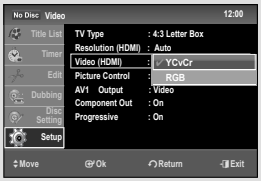


Video (HDMI) (DVD-VR475M only)

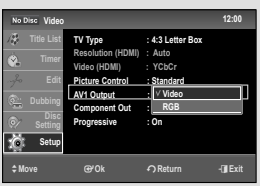
Selects the type of output from the HDMI/OUT jack.

- **YCbCr** : Normally, select this when connecting to an HDMI device.
- **RGB** : Gives brighter colours and deeper black. Select this if colours are weak.

Picture Control

Selects the picture control for the video signals output from the AV output jacks.
You can adjust the video signal of DVD from the recorder to obtain the picture quality you want.
Select the setting that best suits the program you are watching.

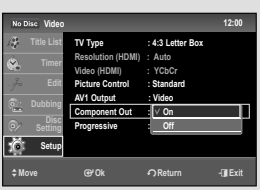
- **Dynamic 1** : Produces a bold dynamic picture by increasing the picture contrast and the colour.
- **Dynamic 2** : Produces a more dynamic picture than "Dynamic 1" by further increasing the picture contrast and the colour.
- **Standard** : Displays a standard picture (function turned off).
- **Cinema 1** : White colours become brighter and black colours become richer,and the colour contrast is increased.
- **Cinema 2** : Enhances details in dark areas by increasing the black level.
- **Personal** : Adjusts Contrast, Brightness, Colour and Hue using ▲▼◄► buttons.



AV1 Output

You can enjoy high quality image through Video or RGB connections. Only one of these signals can be selected at one time.

- **Video** : Video output is available connecting component (Y, PB, PR) or scart jack(AV1) .
- **RGB** : RGB video output is available connecting scart jack(AV1).When you set "AV 1 Output" to "RGB", you should set "Component Out" and "Progressive" to "Off".



Component Out

Selects whether or not to output video signals from the COMPONENT VIDEO OUT jacks.

- **On** : Outputs the component video signals. Select this when you want to view progressive signals.
- **Off** : Outputs no signals.

▪ When you set "AV 1 Output" to "RGB," you cannot set "Component Out" to "On."

▪ When you connect the recorder to a monitor or projector via only the COMPONENT VIDEO OUT jacks, do not select "Off", as the picture will not appear.

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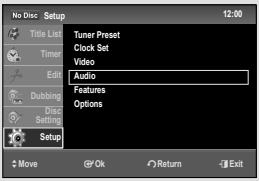
Progressive Scan

This function is available when video output is component. This setting enables you to select a desired progressive mode. To view "Progressive scan mode", first connect the component cable. (See page 19) Be sure the Component cables are connected properly.

- On
- Off

- When the HDMI cable (not supplied) is connected, "Off" can not be selected.
- Progressive setting is only available when the Recorder is in stop mode.

Setting up the Audio Options



This function allows you to setup the Audio options.

1. With the unit in Stop mode, and press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, and then press the **OK** button.
3. Press the ▲▼ buttons to select **Audio**, and then press the **OK** button.
4. Press the ▲▼ buttons to select the desired audio option, and then press the **OK** button.
5. Press the ▲▼ buttons to select the desired item, then press the **OK** button.

- Press the **RETURN** button to return to the previous menu. Press the **EXIT** (⏻) button to exit the menu.

Digital Out

Selects if audio signals are output from the DIGITAL AUDIO OUT (COAXIAL).

- **On** : Normally select this. Press the **OK** button and select "Dolby Digital," "DTS," or "MPEG" for further settings.
- **Off** : The influence of the digital circuit upon the analogue circuit is minimum.

The following setup items switches the method of outputting audio signals when you connect a component such as an amplifier (receiver) with a digital input jack.
For connection details, see "AV Receiver Connections" on page 19.

- If you connect a component that does not accept the selected audio signal, a loud noise (or no sound) will come out from the speakers, and may affect your ears or cause speaker damage.

◆ **Dolby Digital (DVDs only)**
Selects the type of Dolby Digital signal.

- **D-PCM** : Select this when the recorder is connected to an audio component lacking a built-in Dolby Digital decoder. You can select whether the signals conform to Dolby

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Surround or not by making adjustments to the "Downmix" item in "Audio" setup (page 37.)

- **Dolby Digital** : Select this when the recorder is connected to an audio component with a built-in Dolby Digital decoder.

◆ **DTS (DVD VIDEOs only)**

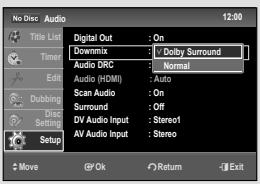
Selects whether or not to output DTS signals.

- **On** : Select this when the recorder is connected to an audio component with a built-in DTS decoder.
- **Off** : Select this when the recorder is connected to an audio component without a built-in DTS decoder.

◆ **MPEG (DVD VIDEOs only)**

Selects the type of MPEG audio signal.

- **PCM** : Select this when the recorder is connected to an audio component without a built-in MPEG decoder. If you play MPEG audio sound tracks, the recorder outputs stereo signals.
- **MPEG** : Select this when the recorder is connected to an audio component with a built-in MPEG decoder.



Downmix (DVDs only)

Switches the method for mixing down to two channels when you play a DVD which has rear sound elements (channels) or is recorded in Dolby Digital format.

- **Dolby Surround** : Normally select this position. Multi-channel audio signals are output to two channels for enjoying surround sounds.
- **Normal** : Multi-channel audio signals are downmixed to two channels for use with your stereo.

■ To enjoy the surround effect of Dolby Digital, turn off the surround settings of this recorder.

Audio DRC (Dynamic Range Control) (DVDs only)

Makes the sound clear when the volume is turned down when playing a DVD that conforms to Audio DRC.

- **Standard** : Normally select this.
- **TV Mode** : Makes low sounds clear even if you turn the volume down.
- **Wide Range** : Gives you the feeling of being at a live performance.

Audio HDMI (DVD-VR475M only)

Selets the output method from the HDMI OUT jack.

- **Auto** : Normal setting. Outputs audio signals according to the status of the connected HDMI device. If the HDMI OUT jack is connected to equipment not compatible with Dolby Digital, PCM will automatically be output, even when "Dolby Digital" is selected.
- **PCM** : Converts all audio signals to Linear PCM.

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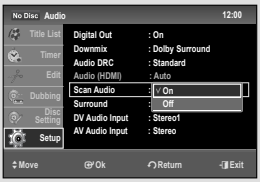
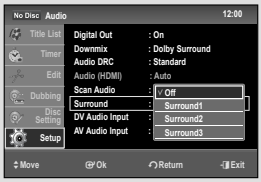


Scan Audio (DVDs only)

- **On** : Outputs audio signals during FF1 fast-forward of a DVD disc with Dolby Digital soundtracks.
- **Off** : Turns off the function. No sound is output during FF1 fast-forward.

■ Sound will be interrupted during Scan Audio.



Surround

Turns on the surround function to create virtual rear speakers from a stereo TV or two separate front speakers.

- **Off** : No surround effect
- **Surround 1** : Creates one set of virtual surround speakers.
- **Surround 2** : Creates two set of virtual surround speakers.
- **Surround 3** : Creates three set of virtual surround speakers.

■ When the playback signal does not contain a signal for the surround speakers, the surround effects will be difficult to hear.

■ When you select one of the surround modes, turn off the surround settings of the connected TV or amplifier (receiver).

DV Audio Input (DVD-VR475M only)

- **Stereo 1** : Records original sound only.
  Normally select this when dubbing a DV format tape.
- **Stereo 2** : Records additional audio only.
- **Mix** : Records both original and additional sounds.

■ Select "Stereo 2" or "Mix" if you have added a second audio channel when recording with your digital video camera.

AV Audio Input

When recording from equipment connected to the AV input jacks to a DVD disc in this recorder, select AV input audio.

- **Stereo** : Records stereo sound only.
- **Bilingual** : Records the two different soundtracks on DVD-RWs (VR mode) and DVD-Rs (VR mode). You can select either soundtrack when playing back the disc.

■ When recording on a disc other than DVD-RWs (VR mode), select either sound track with the connected equipment before recording.

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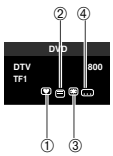
Basic Functions

Display Screen

After the television channels have been stored, you will see the following picture(banner) each time you switch channels.
You can use this function when you see DVB-T.

1. Press the *i* button once to display the channel and the channel name.

2. Select the channel by pressing the **NUMBER** buttons or **PROG** (▲ / ▼) buttons to move to **TV** channel.
You will also see this banner each time you change channels.

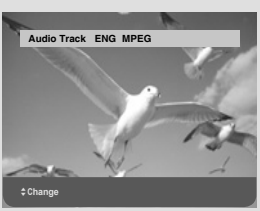


◆Banner Elements

1. Displays the favourite channel.
2. Displays the Digital Text.
3. Displays the subtitle.
4. Displays the multiaudio.

- The icon is displayed according to the service information of signal.
- The icon is displayed only with more than one audio type and language.
- By pressing the *i* button, you can see the detailed information.

Select Audiotrack



1. Press the **AUDIO** button to see the Audio track list.

2. Press the ▲▼ buttons to select desired Audio track, and then press the **OK** button.

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Setting the Favourite Channel

You can immediately register the present channel to the Digital Favourite Channel List.

1. Press the **FAV LIST** button while you are viewing a programme.

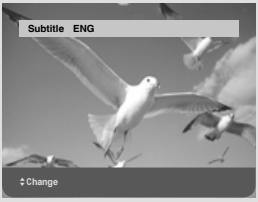
2. To add the current channel to the Digital Favourite channels, press the **GREEN(B)** button.
(To display all favourite list, press the **FAV LIST** button. Each time **FAV LIST** button is pressed, favourite list will be toggled.)
To remove a favourite channel from the Digital Favourite channel list, press the **RED(A)** button.

– To watch the favourite channel –

Press the **FAV LIST** button and then select the channel.
Press the **OK** button to watch that channel.

- You can make up to 8 Digital favourite channel. (TV favourite list: 4, Radio favourite list:4)

Changing the Subtitle Language



When the current broadcasting programme provides subtitle, press the SUBTITLE button . If Subtitle is available on current programme, menu bar is displayed on the upper side.

1. Press the **SUBTITLE** button.

2. Press the ▲▼ buttons to select a desired subtitle, and then press the **OK** button.

Using the digital text service

When the current broadcasting programme provides digital text service, you can use digital text service.

1. Press the **TEXT** button, the main menu of digital text will be displayed.

2. Press the ▲▼ or number button to select desired digital text, and then press the **OK** button.

- Press the **TEXT** button to exit the digital text mode.

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Guide

The electronic programme guide gives you a channel list for the channels.

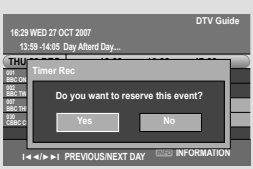
1. Press the **GUIDE** button while you are viewing a programme. (DTV)
   - **RED(A) button (Timer Record)** : Sets the Timer Record.
   - **(►►I)button** : Moves to the next day
   - **(I◄◄)button** : Moves back to the previous day
     ➞ Can display programmes up to 8 days time.
   - **▲▼◄► button** : select the programme and station.
   - **INFO button (Information)** : View more detailed information about the selected programme.

- The title information is displayed in the Title List as for Guide REC.
- If Timer Rec is set, the icon is displayed in the set programme.
- Up to 12 recording are possible including guide recording and general recording.

Guide Timer Recording

Make sure that clock must be set before operating this function.
(see pages 23~24)

1. Press the ▲▼◄► buttons to select desired programme, and then press **RED(A)** button.
2. The time of Guide is the time of the current channel.
3. You can check the setting in the scheduled List. (see pages 70~71)



- The title information is displayed in the Title List as for Guide REC.
- If Timer Rec is set, the icon is displayed in the set programme.
- If you press **RED(A)** button, timer recording will be cancelled.
- Up to 12 recording are possible including guide recording and general recording.Scan Audio (DVDs only)

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Playback

This section introduces basic functions of playback and playback by disc type.
Read the following information before playing a disc.

Region code (DVD-Video only)

Both the DVD Recorder & VCR and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this DVD Recorder & VCR is described on the rear panel of the DVD Recorder & VCR.

Logos of Discs that can be played

Dolby Digital

DTS

Digital Audio

Stereo

PAL broadcast system in U.K, France, Germany, etc.

DivX

MP3

Disc types that can be played

Disc Types	Disc Logo content	Recorded content	Disc Shape	Max. Playing Time
DVD-VIDEO		AUDIO VIDEO	Single sided(12cm)	240 min.
			Double sided(12cm)	480 min.
			Single sided(8cm)	80 min.
			Double sided(8cm)	160 min.
AUDIO-CD		AUDIO	Single sided(12cm)	74 min.
			Single sided(8cm)	20 min.
JPEG		JPEG Image	Single sided(12cm)	–
			Single sided(8cm)	–
MP3		MP3 Audio	Single sided(12cm)	–
			Single sided(8cm)	–
MPEG4		MPEG4 Movie	Single sided(12cm)	
			Single sided(8cm)	
DivX		DivX Movie	Single sided(12cm)	–
			Single sided(8cm)	–
DVD-RAM		AUDIO VIDEO	Single Layer(12cm) (4.7GB)	–
			Dual Layer(12cm) (8.5GB)	–
DVD-RW		AUDIO VIDEO	12cm (4.7GB)	–
DVD-R		AUDIO VIDEO	Single Layer(12cm) (4.7GB)	–
			Dual Layer(12cm) (8.5GB)	–
DVD+RW		AUDIO VIDEO	12cm (4.7GB)	–
DVD+R		AUDIO VIDEO	Single Layer(12cm) (4.7GB)	–
			Dual Layer(12cm) (8.5GB)	–
CD-R/-RW/ DVD-RAM/ -RW/-R		JPEG MP3 DivX	–	–

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Discs that cannot be played

- DVD-Video with a region number other than "2" or "ALL"
- 3.9 GB DVD-R Disc for Authoring.
- A DVD-RW(V)/-R(V)/+R disc which has been recorded and not finalised in a different manufacturer's recorder.
- DVD-ROM/PD/MV-Disc, etc
- VCD/SVCD/CVD/CD-ROM/CDV/CD-G/CD-I
- BD, HD-DVD

- This DVD Recorder & VCR can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.
- Playback and/or recording may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched, finger prints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
- DVD-RAM/±RW/±R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.
- Discs with NTSC programmes recorded on them can be played but cannot be recorded using this product.

Playing a Disc

1. Press the **OPEN/CLOSE** button.
2. Place a disc gently into the tray with the disc's label facing up.
3. Press the **OPEN/CLOSE** button to close the disc tray.
   - The DVD Recorder & VCR does not play discs automatically after being powered on initially.
   - When the DVD Recorder & VCR is powered on and a disc is in the tray, the unit will be activated and wait in stop status.
   - Press the **PLAY**(▷) button to start playback.
4. Press the **STOP**(■) button to stop playback.

- When you stop playing back a disc, the DVD Recorder & VCR remembers where you stopped, so when you press **PLAY**(▷) button again, it will pick up where you left off. (Unless the disc is removed or the DVD Recorder & VCR is unplugged, or if you press the **STOP**(■) button twice.)

- Do not move your DVD Recorder & VCR while playing, as this may cause damage to the disc.
- Make sure to press the **OPEN/CLOSE** button to open or close the disc tray.
- Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.
- Do not place foreign materials on or in the disc tray.

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- Some functions may perform differently or be disabled depending on the disc type.
  If this occurs, refer to the instructions written on the disc case.
- Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.
- You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD Recorder & VCR.

Using the Disc Menu & Title Menu

Some type of discs contain a dedicated menu system that allows you to select special functions for title, chapter, audio track, subtitle, film preview, information on characters, etc.

For DVD-VIDEO Disc

- **Disc Menu** : Press the **DISC MENU** button to enter the disc menu of the disc.
  - Move to the setup menu related to playback operation.
  - You can select audio language and subtitle etc. provided by the disc.
- **Title Menu** : Press the **TITLE MENU** button to move to the title menu of the disc.
  - Some discs may not support the title menu functionality.

For DVD-RAM/±RW/±R Disc

- **Title List**
  Press the **TITLE LIST** button. Title List is a list of previously recorded programmes. If a title is deleted, that title cannot be played again.
- **Play List (DVD-RAM/-RW(VR)/-R(VR))**
  Press the **PLAYLIST** button. This refers to a list of user-selected titles. When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original recording will not be deleted. (only VR mode)

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Using the playback related buttons

Searching through a Chapter or Track

During play, press the **SEARCH** (◀◀ ▶▶) buttons on the remote control.

DVD-VIDEO/DVD-RAM/ ±RW/±R	▶▶ FF1 → ▶▶ FF2 → ▶▶ FF3 ◀◀ FR1 → ◀◀ FR2 → ◀◀ FR3
MPEG4	▶▶ FF1 → ▶▶ FF2 → ▶▶ FF3 ◀◀ FR1 → ◀◀ FR2 → ◀◀ FR3
AUDIO CD (CD-DA)	▶▶ FF1 → ▶▶ FF2 ◀◀ FR → ◀◀ FR2

- You can scan the programme in reverse.
- To return to normal speed playback, press the **PLAY**(▶) button.

- You can hear sound during forward search (FF1) in DVD-VIDEO/ DVD-RAM/ ±RW/±R disc.
- The speed marked in this function may be different from the actual playback speed.

Skipping Chapters, Titles or Markers

During play, press the **SKIP** (⏮ ⏭) buttons on the remote control.

- **If you press the SKIP (⏮) button,**
  it moves to the beginning of the chapter or Title or marker. Pressing the button once again within 3 seconds returns to the beginning of the previous chapter or Title or marker (DVD-RAM/-RW(VR mode))
- **If you press the SKIP (⏭) button,**
  it moves to the next chapter or track. (DVD-RAM/-RW(VR mode))

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Slow Motion Play

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R DivX MPEG4

In pause mode, press the **SEARCH** (⏮ ⏭) buttons on the remote control.

- **If you press the SEARCH (⏭) button,**
  ▮▶ Slow 3 ➞ ▮▶ Slow 2 ➞ ▮▶ Slow 1
- **If you press the SEARCH (⏮) button,**
  ◀▮ Slow 3 ➞ ◀▮ Slow 2 ➞ ◀▮ Slow 1
- To return to normal speed playback, press the **PLAY**(▶) button.

■ Slow motion operates only in the forward direction on MPEG4 discs.

Step Motion Play

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R DivX MPEG4

Press the **F.ADV** buttons on the remote control in the pause mode.

- Each time the button is pressed, a new frame will appear.
- To return to normal speed playback, press the **PLAY**(▶) button.

Skipping ahead 30 seconds

DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

In play mode, press F.ADV/SKIP button to skip ahead exactly 30 seconds.

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Using the ANYKEY button

The ANYKEY functions allows you to easily search for a desired scene by accessing title, chapter, track and time. You can also change the subtitle and audio settings and set some features including Angle.

Moving to a desired scene directly

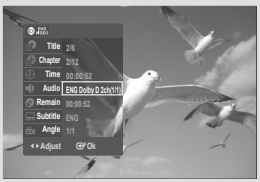
DVD-VIDEO DVD-RAM DVD-RW DVD-R DVD+RW DVD+R MPEG4

If you want to move to a certain title, chapter or time, use this function.

1. Press the **ANYKEY** button during playback.
2. Press the ▲▼ buttons to select **Title, Chapter** or **Time**.
3. Press the ◄► buttons or number (0~9) buttons to select the desired scene.
   (In case of searching a time, enter the time in the sequence of hours, minutes, seconds using the number buttons.)
   Then, press the **OK** button.

- This may not work for some discs. When an audio CD (CDDA) or an MP3 disc is inserted, according to the disc type, the information display may not be appear.
- The Time Search function does not operate on some discs.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button again.

Selecting the Audio language



DVD-VIDEO MPEG4

Audio languages may not work depending on the disc type. This is only available during playback.
You can also operate this function by pressing the AUDIO button on the remote control.

1. Press the **ANYKEY** button during playback.
2. Press the ▲▼ buttons to select **Audio**, then press the ◄► buttons to select the desired audio language.
3. Press the **OK** button.

- Audio languages may be different because they are disc-specific.
- Some discs allow you to select the audio language for the disc menu only.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button again.

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Remain

You can check the remaining time of the current title.

1. Press the ANYKEY button during playback.

Selecting the Subtitle Language

DVD-VIDEO MPEG4

Subtitle languages may not work depending on the disc type. This is only available during playback.
You can also operate this function by pressing the SUBTITLE button on the remote control.

1. Press the **ANYKEY** button during playback.
2. Press the ▲▼ buttons to select **Subtitle**, then press the ◄► buttons to select the desired subtitle language.
3. Press the **OK** button.

- The subtitle display may be different depending on the disc type.
- Some discs allow you to select the language for the disc menu only.
- To make the sub--menu disappear,press the **ANYKEY** or **RETURN** button again.

Changing the Camera Angle

DVD-VIDEO

If a DVD-VIDEO contains multiple angles of a particular scene, you can use the Angle function.
If the disc contains multiple angles, the ANGLE appears on the screen.

1. Press the **ANYKEY** button during playback.
2. Press the ▲▼ buttons to select **Angle**, then press the ◄► buttons or number (0~9) buttons to select the desired angle scene.
3. Press the **OK** button.

- This function is disc-dependent, and may not work all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.
- To make the sub-menu disappear, press the **ANYKEY** or **RETURN** button again.

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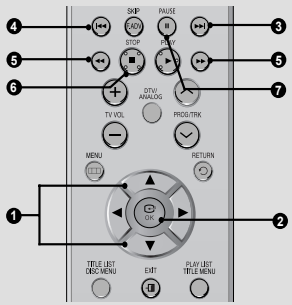
Playing an Audio CD/MP3

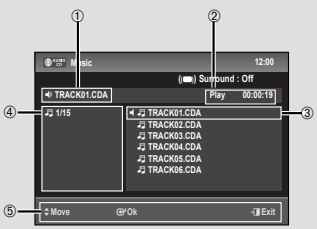
Buttons on the Remote Control used for Audio CD(CD-DA)/MP3 playback



1. ▲▼ : Selects a track (song).
2. **OK button** : Plays the selected track (song).
3. **SKIP (⏭) button** : Moves to the next track.
4. **SKIP (⏮) button** : Moves to the previous track.
5. **Press the SEARCH (⏪ ⏩) buttons** : Forward scan : FF, Reverse scan : FR
6. **STOP (⏹) button** : Stops a track(song).
7. **PAUSE (⏸) button** : Pauses Playback. To Playback, press the PLAY button.

Playing an Audio CD(CD-DA)

1. Insert an audio CD (CD-DA) into the disc tray.
   - The audio CD menu appears and the tracks (songs) are played automatically.
2. Press the ▲▼ buttons to select the track (song) you want to hear, and then press the **OK** button.



◆ Audio CD(CD-DA) Screen Elements

① **Current track (song)** : Displays the number of the track currently being played.

② This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.

③ Display the track list (song list).

④ Display the current file.

⑤ Display available buttons.

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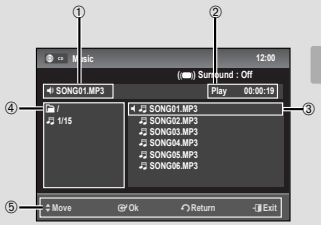
Playing an MP3 Disc

1. Insert an MP3 disc into the disc tray.
   - The menu is displayed
2. Press the ▲▼ buttons to select **Music**, then press the **OK** button.
3. Press the ▲▼ buttons to select the track you want to hear, and then press the **OK** button.



◆ MP3 Screen Elements

① **Current track (song)** : Displays the number of the track currently being played.

② This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.

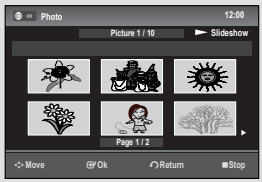
③ Display the track list (song list).

④ Display the current file.

⑤ Display available buttons.

Playing back a Picture Disc

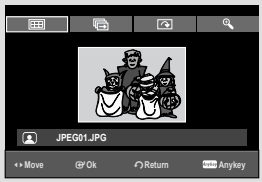
JPEG



1. Insert a JPEG Disc into the disc tray.
2. Press the ▲▼ buttons to select the **Photo**, and then press the **OK** button.
3. Press the ▲▼◄► buttons to select a picture.
   - To see the next 6 pictures, press the ►►I button.
   - To see the previous 6 pictures, press the I◄◄ button.

4-1. If you press the **PLAY** ( ) button, the Slide Show Speed screen will appear. Press the ◄► buttons to set the slide show speed, then press the **OK** button.

4-2. Press the **OK** button with a picture selected in the Album screen and select a display mode (**Album screen** ( ), **Slide show** ( ) or **Rotation** ( ), or **Zoom** ( )) using the ◄► buttons, then press the **OK** button.



: Returns to the Album screen.

: The unit enters slide show mode.
Before the slide show begins the picture interval (Slide show speed) must be set.

: Each time the **OK** button is pressed, the picture rotates 90 degrees clockwise.

: Each time the OK button is pressed, the picture is enlarged up to 4X(Four times the normal size).

normal size ➞ 2X ➞ 4X ➞ 2X

- Press the **ANYKEY** button to display the menu bar.
- Press the **ANYKEY** button again to clear the menu bar.

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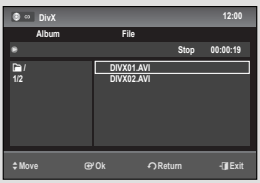
Music/Photo Simultaneous Playback

1. Insert a Mixed disc(Music+JPEG) into the disc tray.
2. Press the ▲▼ buttons to select the MIX, and then press the OK button. The track list will be displayed.
3. Press the OK button.
   The message "Do you want to view the photo with MP3?" will bedisplayed.
4. Press the ◄► button to select Yes, then press the OK button. You can listen to the music while watching the photo

- To operate this function, you have to select the disc containing both music fi les and photo file.

Playing a MPEG4



1. Insert a MPEG4 disc into the disc tray.
   - The menu is displayed
2. Press the ▲▼ buttons to select **DivX**, then press the **OK** button.
3. Press the ▲▼ buttons to select the avi file (DivX), then press the **OK** or **PLAY** (▶) button.
4. When DivX file is played, you can use following functions. Pressing the **STOP** (■) button once during playback will display the file list, pressing the button again will exit the menu screen.

MPEG4 Function Description

Function	Description
Skip	During play, press the **SKIP** (⏮⏭) buttons, it moves previous or next track.
Search	During play, press the **SEARCH** (◀◀▶▶) buttons and press again to search at a faster speed. (FF1, FF2, FF3)
Slow Motion Play	In pause mode(⏸), press the **SEARCH** (▶▶) button on the remote control. (Slow1, Slow2, Slow3) Reverse Slow Motion Play is not available.
Step Motion Play	In pause mode(⏸), press the **F.ADV** button on the remote control. Reverse Step Motion Play is not available.

- This unit can play the following video compression formats,
  - DivX Video (Codec) Format : DivX 3.11 DivX 4.x DivX 5.x (without QPEL and GMC)
  - DivX Audio (Codec) Format : MP3, MPEG1 Audio Layer 2, LPCM, AC3
- Supported subtitle file formats: .smi, .srt, .sub, .psb, .txt, .ass (The subtitle file should have exactly the same name to corresponding DivX file name)
- Some DivX files created on a personal computer may not be play back. That is why Codec Type, Version and Higher resolution over specification are not supported.
- You cannot play back the disc that is larger than a 720 x 576 pixel resolution.

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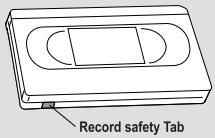

Playing back a VHS Tape (VCR)

1. Insert a standard VHS tape into the VCR deck.
   - When a videotape is inserted, power will turn on automatically.
2. Press the **PLAY** (▷) button on the remote control or on the front panel of the unit. The videotape will begin to play automatically if the Record Safety Tab is removed and Auto Play is turned on.
3. Press the **STOP** (□) button on the remote control or on the front panel of the unit.

Tracking

The Tracking adjustment removes the white lines that sometimes appear during playback because of slight differences in recording decks.

During playback, press the **PROG/TRK (∧ / ∨)** buttons to remove white lines from the picture.

Special VCR Playback Features

While a videotape is playing, you can enjoy a variety of special playback features.

Pause

In Play mode, press **PAUSE** (⏸) button to pause a single frame.

Frame Advance

In the Pause mode, press **F.ADV/SKIP** button to advance to the next frame.

FPS/RPS

In Play mode, press Forward (▷▷) button or Rewind (◁◁) button to Fps/Rps at two speeds:

Skip

In Play mode, press F.ADV/SKIP button to cue ahead exactly 30 seconds. Press F.ADV/SKIP button repeatedly up to 4 times to cue ahead 2 minutes.

Slow motion

In Pause mode, press (▷▷) button for slow motion.

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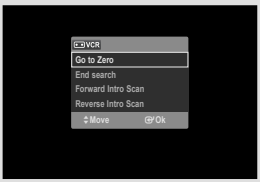
Variable Search System

Each time you record a cassette on this DVD Recorder & VCR, an index is automatically marked on the tape when recording is started.The Search function allows you to fast-forward or rewind to a specific index and start playback from that point.

- This DVD Recorder & VCR uses a standard indexing system (VISS). As a result, it will recognize any indexes marked by other VCRs using the same system and vice versa.

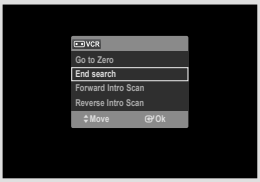
Go To Zero



Use this feature when you want to search for the 0:00:00 counter position on a cassette.

1. Press the **CANCEL** button at the point on the tape where you want to set the counter to 0:00:00.
2. While a cassette is stopped, press the **ANYKEY** button.
3. Press the ▲▼ buttons to select **Go To Zero**, then press the **OK** button. The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.

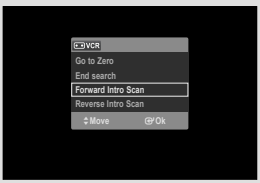
End Search



Use this feature when you want to search for a blank position to record a programme on a cassette.

1. While a cassette is stopped, press the **ANYKEY** button.
2. Press the ▲▼ buttons to select **End Search**, then press the **OK** button. The VCR will fast forward, searching for a blank position, and then automatically stop at that position. If the VCR reaches the end of the tape during end search, the tape will be stopped

Forward/Reverse Intro Scan



Use scan and play when you don't know exactly where a programme is located on a cassette tape.

1. While a cassette is stopped, press the **ANYKEY** button.
2. Press the ▲▼ buttons to select **Forward Intro Scan** or **Reverse Intro Scan**, then press the **OK** button.
   When an Index mark is found the DVD Recorder & VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.

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Recording

This section shows various DVD Recording & VCR methods.
This unit can record on various types of discs.
Before recording, read the following instructions and select the disc type according to your preference.

Recordable Discs

This DVD Recorder & VCR can record on the following discs.

- DVD-VR470M

DVD-RW	DVD-R	DVD-RAM
DVD RW	DVD R	DVD RAM

- DVD-VR475M

DVD-RW	DVD-R	DVD-RAM	DVD+RW	DVD+R
DVD RW	DVD R	DVD RAM	RW	RW

Compatibility between Samsung and Other Company's Recorder

Disc Types	Recording format	Recording Device	Finalising	Additional Recording in Samsung Recorder
DVD-RAM	VR Mode	Samsung	X	Recordable
		Other Company	X	Recordable
DVD-RW	VR Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Recordable
	V Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Not recordable
DVD-R	VR Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Recordable
	V Mode	Samsung	finalised	Not recordable
			not finalised	Recordable
		Other Company	finalised	Not recordable
			not finalised	Not recordable
DVD+RW	-	Samsung	X	Not recordable in some cases
		Other Company	X	Not recordable in some cases
DVD+R	-	Samsung	finalised	Not recordable
			not finalised	Not recordable in some cases
		Other Company	finalised	Not recordable
			not finalised	Not recordable in some cases

- Finalise
  - This closes the DVD-RW/±R so no additional recording can be done.
  - The DVD-RAM/+RW disc cannot be finalised.
- Unfinalise
  - This allows additional recording on a DVD-RW disc originally recorded on the DVD Recorder & VCR.
  - A DVD-RW disc that has been recorded by DAO(Disc At Once) on a PC cannot be unfinalised.
  - A DVD-RW disc that has been recorded in Video Mode of a different maker's recorder cannot be unfinalised.
- - A DVD±R disc cannot be unfinalised.

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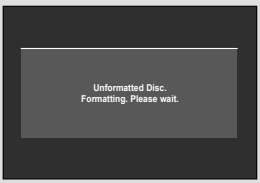

Recording Formats

Since available functions differ depending on the disc type, select a disc that best fits your preferences.

- DVD-RAM/±RW/+R : Format will be started automatically.
- DVD-R : Initialising the disc is unnecessary.

DVD-RAM/-RW(VR)/-R(VR)

- This mode involves multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.).
- Various editing options using a created Playlist.

DVD-RW(V)/-R(V)

- Chapters will be created automatically when you finalise recording on DVD-RW/DVD-R discs in Video mode.
- Simple editing (erasing titles/changing title name).

- You can initialise discs automatically using EZ REC MODE. (see page 28).

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Recording Mode

Select one of eight recording modes by pressing the REC MODE button repeatedly while the unit is in Stop mode for the desired recording time and picture quality. In general, picture quality improves as the recording time decreases. In AUTO mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in HQ, HSP, SP, LSP, ESP, LP, EP and SLP modes and you can use this mode for timer recording.

Recording Mode	Recording Times
	DVD-RAM/±RW/±R
HQ (high quality mode)	Approx. 1 hour
HSP	Approx. 1 hour 30 minutes
SP (standard quality mode)	Approx. 2 hours
LSP	Approx. 2 hours 30 minutes
ESP	Approx. 3 hours
LP (long recording mode)	Approx. 4 hours
EP	Approx. 6 hours
SLP (long duration mode)	Approx. 8 hours

The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs.

- Recording time may vary according to specific conditions.
- 1GB = 1,000,000,000 bytes; actual formatted capacity may be less as the internal firmware uses a portion of the memory.
- DVB-T recording is possible only on AUTO mode.
- On DVB-T recording, recording mode will be automatically determined depending on the quality of the video (or audio).

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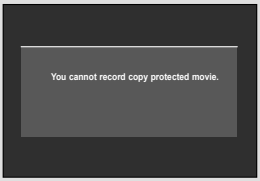

Unrecordable pictures

Video with copy protection cannot be recorded on this DVD Recorder & VCR.
When the DVD Recorder & VCR receives a copy- guard signal while recording, recording stops and the following message appears on the screen.

Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, Copy-Free, Copy-Once and Copy-Never. If you want to record a copy-once type programme, use DVD-RW with CPRM in VR Mode AND DVD-RAM discs.

Signal type / Media	Copy-Free	Copy-Once	Copy-Never
DVD-RAM (Ver.2.0)	O	O*	-
DVD+RW	O	-	-
DVD+R	O	-	-
DVD-RW (Ver.1.1)	O	-	-
DVD-RW (Ver.1.1) with CPRM VR mode V mode	 O O	 O* -	 - -
DVD-R	O	-	-

Once "Copy Once" has been recorded, recording cannot be done anymore.

◆ Content Protection for Recordable Media (CPRM)

CPRM is a mechanism that ties a recording to the media on which it is recorded. It is supported by some DVD Recorders & VCR, but not by many DVD players. Each blank recordable DVD has a unique 64-bit media ID etched in the BCA. When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID.
During playback, the ID is read from the BCA and used to generate a key to decrypt the contents of the disc. If the contents of the disc are copied to other media, the ID will be absent or wrong and the data will not be decryptable.

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Recording immediately

(DVD-VR475M only)

Before you start

1. Check the antenna cable is connected.
2. Press the **OPEN/CLOSE** button and place a recordable disc on the disc tray.
3. Check the remaining time on the disc.
   DVD-RAM/RW/-R discs should be formatted or initialised in advance before beginning recording. Most new discs are sold unformatted. Make sure to format your unformatted discs before recording.
4. Press the **OPEN/CLOSE** button to close the disc tray.
   Wait until **LOAD** disappears from the front panel display.

Recording the current programme you are watching

1. Press the **PROG/TRK (∧ / ∨)** buttons or number buttons to select the station you want to record.
2. Press the **REC MODE** button repeatedly, to select the recording Mode (quality).

   HQ → HSP → SP → LSP → ESP → LP → EP → SLP
3. Press the **REC** button.

Recording from external equipment you are watching

1. Power on your DVD Recorder & VCR and switch to AV mode by pressing the **INPUT SEL.** button on the remote control. The front panel display changes in the following sequence.

   PR → AV1 → AV2 → AV3 → DV (DVD-VR475M only)
2. Press the **REC MODE** button repeatedly to select the recording Mode (quality).

   HQ → HSP → SP → LSP → ESP → LP → EP → SLP
3. When your DVD Recorder & VCR is in the Stop mode, set the operation mode of your external devices to play mode.
4. Press the **REC** button on your DVD Recorder & VCR when the image from which you want to start recording is displayed.

To pause recording

Press the **PAUSE**(⏸) button to pause a recording in progress.

- Press the **PAUSE**(⏸) button again to resume recording.

To stop recording

Press the **STOP** button to stop a recording in progress.

- When using DVD-RW/DVD-R discs, the message "Updating the information of disc. Please wait for a moment." is displayed.

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- You can not change the recording mode and the programme while recording.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a DVD-RW/-R disc.
- If the power interrupted due to power failure or other reasons, the title being recorded will not be saved onto the disc.
- Recording will stop automatically if a copy protected image is selected.
- Do not use DVD-R authoring discs with this unit.
- Also refer to the user manual for your External Devices when recording from external equipment using the Audio/Video cable or scart cable.

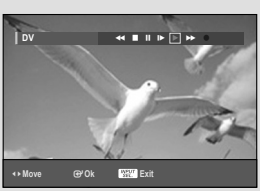
Recording through a DV Input jack (DVD-VR475M only)

You may control the Camcorder using the IEEE1394 (DV) interface. Follow these directions to record onto a disc or tape from a camcorder that has a DV output jack.

1. Connect the DV output jack of your camcorder to the DV input jack on the front of your DVD Recorder & VCR using a DV cable.
2. Power on your DVD Recorder & VCR and switch to DV mode by pressing the **INPUT SEL.** button on the remote control.
3. Press the **REC MODE** button repeatedly to select the recording Mode (quality).

   HQ → HSP → SP → LSP → ESP → LP → EP → SLP

4. If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.
5. Select the Playback related icons on the upper part of the screen to playback the camcorder and find the starting position for dubbing.
6. To start recording, Press the ◄► buttons to select **REC** (●) icon in the top side of the screen, then press the **OK** button.
   You can press the **REC** button on the remote control to start recording
7. Press the **STOP** button on your DVD Recorder & VCR when the recording is finished.



- Some camcorders may not work with your DVD Recorder & VCR even if they have a DV output jack.
- Also refer to the user manual for your camcorder when recording through a DV jack.
- To display playback related icons on the screen, press any direction button on the remote control.
- Playback related icons do not operate on the VCR view.
  To record onto a video tape from a camcorder, you should find the starting position by using your camcorder.
  Then press the **REC** button on the remote control of DVD Recorder & VCR.

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Making a One Touch Recording (OTR)

(DVD-VR475M only)

One-Touch Recording (OTR) allows you to add recording time in preset minute increments up to 8 hours by pressing the REC button repeatedly.

1. Press the **PROG/TRK (∧ / ∨)** buttons or number buttons to select the station to record. If you want to record through a connected external component, press the **INPUT SEL.** button to select an appropriate external input (PR, AV1, AV2, AV3 or DV input(DVD-VR475M only)).
2. Press the **REC** button.
3. While in Record mode, press the **REC** button again to activate One-Touch Recording (OTR).
   - Record length 0:30 appears on the On-Screen Display and the DVD Recorder & VCR will record for exactly 30 minutes.
4. Continue pressing **REC** to add recording time in preset minute increments up to 8 hours.
   - The DVD Recorder & VCR stops recording automatically when the time has elapsed.

To stop recording

Press the **STOP** (■) button.
The message "Press STOP button once more to cancel Timer Record" is displayed.
Press the **STOP** (■) button again.
The message "Updating the information of disc. Please wait for a moment" is displayed.

- The timer counter decreases by the minute from 8:00 to 0:00, then the DVD Recorder & VCR stops recording.

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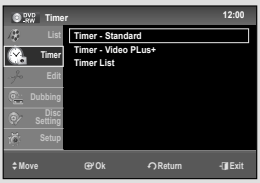
Making a Timer Recording

(DVD-VR475M only)



1. **Check the antenna cable is connected.**
2. **Check the remaining time of the disc.**
3. **Check the date and time are correct.**

Make sure the Clock (Setup-Present Time) must be set before you proceed with a timer recording. (See pages 23~24)

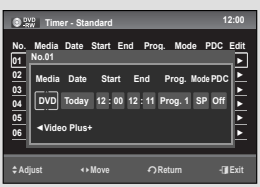
1. With the unit in Stop mode, press the **MENU** button.

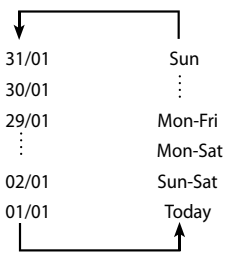
2. Press the ▲▼ buttons to select **Timer**, and then press the **OK** button.

3. Press the ▲▼ buttons to select **Timer-Standard**, and then press the **OK** button.

4. Set timer recording option.

- Fill the input items using the ▲▼◄► buttons and number buttons.
  ◄► : Moves to the previous/next item.
  ▲▼, 0~9 : Sets a value.
- **Media** : DVD or VCR
- **Date** : Timer Recording allows setting the recording time within one month period. Set the recording day. (month/day)





- **Start/End Time** : Start and end time of the timer recording.
- **Prog.** : The video input source (AV1, AV2 or AV3), or the broadcasting channel you want to make a timer recording from.
  To convert DTV/Analogue, press **DTV/ANALOG** button of the remote control.
  On the DTV mode, you can change TV or RADIO by pressing the **TV/RADIO** button on the remote control.

◆ **Recording Mode (DVD)**

AUTO : Select when you want to set video quality automatically.
In AUTO mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in HQ, HSP, SP, LSP, ESP, LP, EP and SLP modes and you can use this mode for timer recording.
HQ : Approx. 1 hour
HSP : Approx. 1 hour 30 minutes
SP (standard quality) : Approx. 2 hours
LSP : Approx. 2 hours 30 minutes
ESP : Approx. 3 hour
LP (low quality) : Approx. 4 hour
EP (extended mode) : Approx. 6 hour
SLP (long duration mode) : Approx. 8 hours
The dual layer DVD-Rs have approximately double the capacity of single layer DVD-Rs.

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◆ **Recording Mode (VCR)**

AUTO : Select when you want to set video quality automatically.
It depends on remaining time on the VCR tape.
SP : Standard Play, for best picture quality.
LP : Long Play, for maximum recording time (2 times SP).

- When you are recording at EP mode on a DVD-RW(V mode)/-R disc, it may not record the full 6 hours because the unit uses the VBR(Variable Bit Rate) ENCODING system. For example, if you record a programme with a lot of action, it uses a higher bit rate which in turn consumes more disc memory.
- DVB-T Timer recording is possible only on AUTO mode.
- On DVB-T recording, recording mode will be automatically determined depending on the quality of the video (or audio).

• **PDC** : PDC (Programme Delivery Control) function.
- If you set this function on, you can control the starting and ending time of recording by special signal included in the broadcasting signal. If a TV programme is shortened or starts earlier or later than scheduled, this function synchronizes the starting and ending time of recording with the actual broadcasting time automatically.
- Set up the start-time EXACTLY according to the published TV schedule. Otherwise the timer recording will not operate.
- Do not select PDC unless you are sure the programme you wish to record is broadcast with PDC.

5. After selecting the set up value for each mode, press the **OK** button to save the timer record.

If the timer settings overlap;
The programmes are recorded in order of priority. After recording of the first programme is complete, the second programme starts being recorded.

To exit without saving the current setting
Press the **EXIT ( )** button.

To return to the previous menu
Press the **RETURN** button if you don't want to set a timer recording.

6. Turn the power off to finish the Timer Recording setting.
• will appear on the front panel. It means that a timer recording is registered.
Timer Recording will not work when the power is on.

- The timer recording time may differ from the set time depending on disc status and overall timer recording status (for example, recording times overlapping, or when the previous recording ends within 2 minutes before the start time of the next recording.)
- You can make up to the Timer Recording up to 12 programmes.

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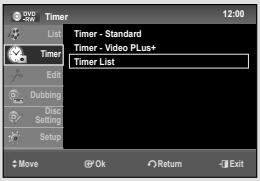
Editing the Timer List

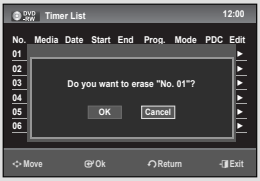


(DVD-VR475M only)

Follow these directions to edit the timer record list.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer**, then press the **OK** button.
3. Press the ▲▼ buttons to select the **Timer List**, then press the **OK** button.
4. Press the ▲▼ buttons to select the number of the **Timer List** you want to edit, then press the **OK** button.
   - The Edit and Delete items are displayed.
5. Press the ▲▼ buttons to select **Edit**, then press the **OK** button.
   - The Timer List screen is displayed. Edit the items you want to modify. See the Timer List section for more information on Timer List Input items. (See pages 61~62)
6. Press the **OK** button to confirm the edited setting.
7. Press the **EXIT** button after finishing the operation. The menu screen will disappear.

Deleting the Timer List



(DVD-VR475M only)

Follow these directions to delete a title from the timer record list.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer**, then press the **OK** button.
3. Press the ▲▼ buttons to select the **Timer List**, then press the **OK** button.
4. Press the ▲▼ buttons to select the number of the Timer List you want to delete, and then press the **OK** button.
   - The Edit and Delete items are displayed.
5. Press the ▲▼ buttons to select Delete, then press the **OK** button.
   - You will be prompted with the delete confirm message such as ("Do you want to erase No.01?").
6. Press the ◄ ► buttons to select **Yes**, then press the **OK** button.
   - The selected title will be deleted from the list.
7. Press the **EXIT** button after finishing the operation. The menu screen will disappear.

▪ You can not delete programmes that are currently being recorded.

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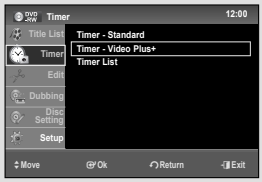
Using the VideoPlus+ Feature

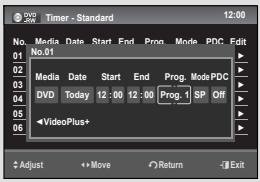
(DVD-VR475M only)

Before presetting your DVD Recorder & VCR.

- ***Switch on both the television and your DVD Recorder & VCR.***
- ***Check that the date and time are correct.***

Up to twelve programmes can be preset





1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Timer**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Timer-Video Plus+**, then press the **OK** button.
   - A message is displayed to allow you to enter the Video Plus+ code.
4. Press the number buttons to enter the code of the programme that you want to record in your television magazine.
   - If you want to correct the Video Plus+ code that you are entering:
     - Press the ◄ button until the digit to be corrected is cleared.
     - Enter the correct digit.
5. Press the **OK** button.
   - The information concerning the programme is displayed.
   - When using the ShowView function for the first time with stored stations, the programme number flashes. This one time, you must enter the PR number manually by pressing the ▲▼ buttons.
6. If the programme and times are correct, press the **OK** button.
7. Turn the power off by pressing the **STANDBY/ON** button to activate the timer list setting.
   - Refer to pages 59~60 if you want to
     - Check whether the timer Recording has set correctly or not.
     - Cancel a preset recording.

- The numbers next to each TV programme listing in the magazines or newspapers are ShowView code numbers, which allow you to programme your DVD Recorder & VCR. instantly with the remote control. Enter the ShowView code for the programme you wish to record.
- ShowView is a trademark of Gemstar Development Corporation. The ShowView system is manufactured under licence from Gemstar Development Corporation.

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Basic VCR Recording

Before starting

1. Check TV channel and Antenna connections.
2. Check the remaining time on the tape.

You can record a TV show in progress by inserting a blank tape and pressing the ● (REC) button. You can even add time in preset increments up to 6 hours by pressing the ● (REC) button repeatedly.

▪ Be sure your videotape has a Record Safety Tab. If the tab is missing, you can cover the opening with a small piece of tape.

▪ Warning : Do not cover this opening unless you are sure you want to record over the tape.

1. Insert a blank VHS tape into the VCR deck.
   • Make sure the tape is long enough to record the entire programme.
2. Press the Number buttons or the **PROG/TRK (∧ / ∨)** buttons to select the desired channel.
   Press the **INPUT SEL.** button to select PR, AV1, AV2, AV3 or DV input (DVD-VR475M only) if recording from an external device connected to the input jacks of the recorder.
3. Press the **REC MODE** button on the remote control to set the Record Mode to one of the following options:
   • **SP** – Standard Play, for best picture quality.
   • **LP** – Long Play, for maximum recording time (2 times SP).

▪ The selected Record Mode will appear on the front panel display and on-screen display.

Maximum Recording Time - SP vs. LP

Tape Length	SP (Standard Play)	LP (Long Play)
E180	Approx. 3 hrs	Approx. 6 hrs
E240	Approx. 4 hrs	Approx. 8 hrs
E260	Approx. 4 hrs 40 mins	Approx. 9 hrs 20 mins
E300	Approx. 5 hrs	Approx. 10 hrs

▪ When you watch or record on the VCR during DVD Recording, some function buttons may not operate.
The message "This function is not available." will be displayed.

4. Press the ● (REC) button on the remote control or front panel.
   For options while recording is in progress, see "Special Recording Features".

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To pause recording

Press the **PAUSE**(⏸) button to pause a recording in progress.

- Press the **PAUSE**(⏸) button again to resume recording.
- You can switch channels by pressing the **PROG/TRK (∧/∨)** buttons while recording pauses.

To stop recording

Press the **STOP** button to stop a recording in progress.

Check Remaining Time

Press **INFO** button on the remote control.
The following information will be displayed.
(Current deck status, recording Mode, remaining time, input channel, current time.)
When you watch or record DVB-T broadcast, this function is not available.

Special Recording Features

While a recording is in progress, you can watch a different media, or add recording time in preset increments.

1. **Watch a Different Channel**
   When you are watching through the Antenna input during recording, press the **TV/VCR** button on the remote control to change to the programme you want to watch.
   When you the watching through the AV input during recording, change the input of your TV from AV to Antenna. Change to the programme you want to watch.
2. **Watch a different media during recording**
   You can watch a DVD during VCR recording or watch a Video tape during DVD recording.
   When you copy DVB-T broadcast to VCR, you can't watch a DVD.
   - During VCR recording, insert a DVD in the DVD deck. The output will automatically change to the DVD and start playback.
   - During DVD recording, insert a Video tape in the VCR deck.
     The output will automatically change to the VCR and start playback.
     (Only if tape is missing the safety tab)
3. **Add Recording Time**
   Refer to the One-Touch Recording (OTR).
   (See page 60)

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4. Recording DVD and VCR at the same time

You can record DVD and VCR at the same time, but both modes must be set up to record separately.

- Press the **DVD/VCR** button to set the unit to DVD or VCR mode.
- Choose input mode PR, AV1, AV2, AV3 or DV input(DVD-VR475M only) for DVD or VCR.
- Choose **REC MODE** for DVD or VCR.
- Press **REC** button for DVD or VCR.

- When the DVD Recorder & VCR is connected to your TV using the component video cable, the playback screen on the video tape will not display during DVD recording.
- You cannot record different channels at the same time.
- The DVD and VCR cannot start recording at the exact same time.

Dubbing to DVD or VIDEO

You can copy from the DVD to VIDEO or VIDEO to DVD.
Check the remaining time on the tape and disc.

Dubbing from DVD to VIDEO

DVD+RW DVD+R DVD-R DVD-RW DVD-RAM ⇨

(DVD-VR475M only)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Dubbing**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Simple Dubbing**, then press the **OK** button.
4. Press the ▲▼ buttons to select **DVD → VIDEO**, then press the **OK** button.
   The Message "Do you want to copy DVD contents to video?" will be displayed.
5. Press the ◄► buttons to select **Yes**, then press the **OK** button.

Direct dubbing DVD to VIDEO

- Insert a DVD disc you want to dubbing.
- Insert a VHS tape.
- Press the VCR dubbing button on front panel or remote control. (TO VCR)
- To stop recording, press the **STOP** button.
- You can also dubbing from DivX to VCR when the desired DivX is played back. If the DivX disc has various files, only the selected file will be played back.

- Dubbing function is not allowed in progressive scan mode.

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To dubbing from VIDEO to DVD

DVD-R DVD-RW DVD+RAM DVD+RW DVD+R

(DVD-VR475M only)

1. With the unit in Stop mode, press the **MENU** button in stop mode.
2. Press the ▲▼ buttons to select **Dubbing**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Simple Dubbing**, then press the **OK** button.
4. Press the ▲▼ buttons to select **VIDEO → DVD**, then press the **OK** button.
5. The Message "Do you want to copy video contents to DVD?" will be displayed.
6. Press the ◄► buttons to select **Yes**, then press the **OK** button.

Direct dubbing VCR to DVD

- Insert the VHS tape you want to dub.
- Insert Recordable DVD disc.
- Press DVD dubbing button on front panel or remote control. (TO DVD)
- To stop recording press the **STOP** button.

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DV Dubbing (DVD-VR475M only)

Before DV Dubbing, connect the DV output jack of camcorder to the DV input jack of DVD Recorder & VCR using a DV cable.

1. With the unit in Stop mode, press the **MENU** button in stop mode.
2. Press the ▲▼ buttons to select **Dubbing**, then press the **OK** button.
3. Press the ▲▼ buttons to select **DV Dubbing**, then press the **OK** button.

DV Simple Dubbing

You can find the dubbing start point easily by using the DV Simple Dubbing function.

To setup, follow steps 1~3

4. Press the ▲▼ buttons to select **DV Simple Dubbing**, then the **OK** button.
   The DV Tape Mode screen will be displayed.
5. Select the playback related buttons using the ◄► button to find the dubbing start point.
6. If you find start point, press the ◄► button to select ● (Record), then press the **OK** button.
   Dubbing starts.

DV One Touch Dubbing

You can record the entire contents of a DV format tape onto a disc easily by using the DV One Touch Dubbing function.

To setup, follow steps 1~3

4. Press the ▲▼ buttons to select **DV One Touch Dubbing**, then press the **OK** button.
   DVD Recorder & VCR rewinds the tape in the digital video camera and then starts recording the tape contents from the beginning.
   When playback of the tape stops, One Touch Dubbing ends automatically.

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Editing

This section introduces basic functions of DVD editing and explains both edit functions for the recording on a disc and edit functions for the entire disc.

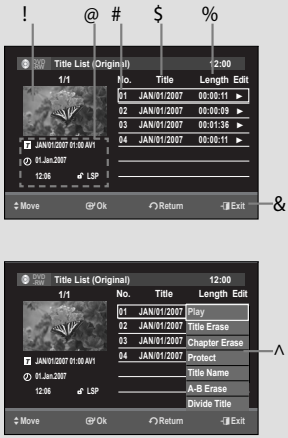
Playing the Title List

DVD+RW DVD+R DVD-R DVD-RW DVD-RAM

(DVD-VR475M only)

Follow these instructions to play back a title from the Title List.

1. Press the **TITLE LIST** button.
   The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to play from Title List, and then press the **PLAY** button.
3. Press the **STOP** button to stop playing.
   To return to the title list screen, press the **TITLE LIST** button.



Title List Screen Elements

! Playback screen for recorded titles

@ Information window for the selected title: Title name, recording date, lock status, recording mode

Recorded title No.

$ Recorded title name

% Recording Length (i.e., the playing time)

^ Edit menu
- Play : Plays the selected title.
- Title Erase : Erase the selected title from the list.
- Chapter Erase : Erase the selected chapter from the title.
- Protect : Locks or unlocks the selected title.
- Title Name : Changes the name of a selected title.
- A-B Erase : Erase the selected section (scene) from the title.
- Divide Title : Divide a title into two.

& Button display

- During the playback, press the **ANYKEY** button. you can play desired title. (see page 47)
- This may depend on the type of disc.
- DVD-RW(V)/+RW/DVD-R(V)/+R has limited editing function.

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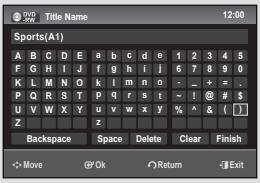
Changing the Name of a Title (Title Name)

Follow these instructions to rename a title list, i.e., to edit the title of a recorded programme.



DVD+RW DVD+R DVD-R DVD-RW DVD-RAM

(DVD-VR475M only)

1. Press the **TITLE LIST** button.
   The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to rename from the Title List, then press the **OK** button.
3. Press the ▲▼ buttons to select **Title Name**, then press the **OK** button.
   The Title Name screen is displayed.
4. Select the desired characters using the ▲▼◄ ► buttons, press the **OK** button.
   - **Back Space** : Deletes the character before the cursor.
   - **Space** : Enters a blank and moves the cursor one forward (to the right).
   - **Delete** : Deletes the character at the cursor position.
   - **Clear** : Deletes all the character inputs.
   - **Finish** : Registers the character inputs.
5. Press the ▲▼◄ ► buttons to select **Finish**, and then press the **OK** button.
   The changed title name is displayed in the title field of the selected title.

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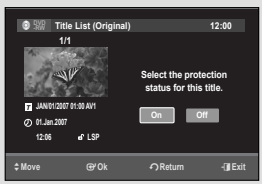
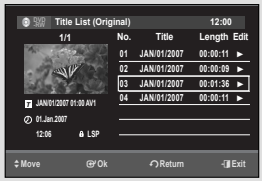
Locking (Protecting) a Title

Follow these instructions to lock a title to protect it from accidental deletion.





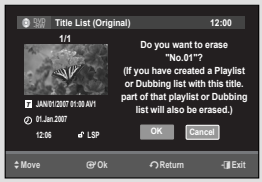
DVD-RW DVD+R DVD-RAM DVD-RW DVD-R

(DVD-VR475M only) (VR Mode)

1. Press the **TITLE LIST** button.
   The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to protect from the Title List, then press the **OK** button.
3. Press the ▲▼ buttons to select **Protect**, then press the **OK** button.
   You will be prompted with a confirmation message.
   The Message "Select the protection status for this title." is displayed.
4. Press the ◄ ► buttons to select **On**, then press the **OK** button.
   The key icon on the information window for the selected title changes to the locked status. (→)

Erasing a Title (Title Erase)

Follow these instructions to erase a title from the Title List.



DVD+RW DVD+R DVD-R DVD-RW DVD-RAM

(DVD-VR475M only)

1. Press the **TITLE LIST** button.
   The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to erase from the Title List, then press the **OK** button.
3. Press the ▲▼ buttons to select **Title Erase**, then press the **OK** button.
   You will be prompted with a confirmation message.
   DVD-RAM(VR), DVD-RW(VR) : Since Playlist is present, the message 'Do you want to erase "No. 01"? (If you have created a Playlist or Dubbing list with this title, part of that Playlist or Dubbing list will also be erased.)' is displayed.
   DVD-RW(Video mode), DVD-R(V mode), DVD+RW/+R : Since Playlist is not present, the message 'Do you want to erase "No. 01"?' is displayed.
   - The message depends on the type of disc.
4. Press the ◄ ► buttons to select **OK**, then press the **OK** button.

- You cannot erase a protected title.
  If you want to delete a protected title, select Off in the Title Protection menu.
- Once a title is erased from the Title List, it cannot be recovered.
- Once DVD-RW/±R is finalised, it cannot be erased.

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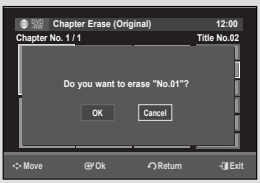
Erasing a chapter (Chapter Erase)

Follow these instructions to erase a chapter from the Title List.



DVD-RAM DVD-RW DVD-R

(VR mode)

1. Press the **TITLE LIST** button.
   The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to erase from the Title List, then press the **OK** button.
3. Press the ▲▼ buttons to select **Chapter Erase**, then press the **OK** button.
   The Chapter Erase screen is displayed.
4. Press the ▲▼◄► buttons to select a chapter you want to erase from the Title List, then press the **OK** button. **Check** is selected.
   To preview the chapter, then press the **OK** button.
   When you press the **RETURN** button, the display returns to Chapter Erase (Original).
5. Press the ▲▼ buttons to select **Erase**, then press the **OK** button.
   You wil be prompted with a confirmation message.
   The Message "Do you want to erase "No. 01"?" is displayed.
6. Press the ◄► buttons to select **OK**, then press the **OK** button.
   The selected chapter is erased from the title.
   To erase other chapters, repeat from step 4.

- You can also erase chapters from a Playlist title.
- If you erase an original title used in a Playlist, that Playlist is also erased.

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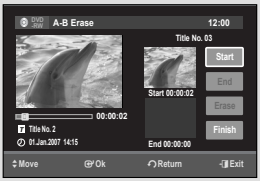
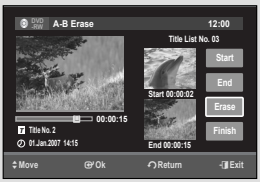
Erasing a section of a Title (A-B Erase)

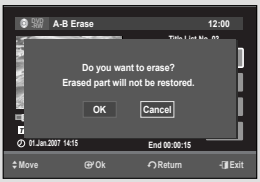
Follow these instructions to erase a section of a Title List entry.

DVD-RAM DVD-RW DVD-R DVD+RW

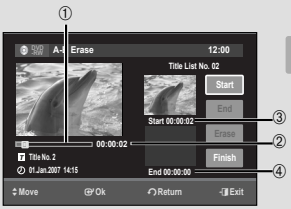
(VR mode)







1. Press the **TITLE LIST** button.
   The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to edit from the Title List, then press the **OK** button.
3. Press the ▲▼ buttons to select **A-B Erase**, then press the **OK** button.
   The A-B Erase screen is displayed.
4. Press the **OK** button at the starting point.
   The image and starting point time are displayed in the section deletion starting point window.
5. Press the **OK** button at the end point.
   The image and end point time is displayed in the Section deletion ending point window.
6. Press the ▲▼ buttons to select **Erase**, then press the **OK** button.
7. Press the ◄ ► buttons to select **OK**, then press the **OK** button.
   The selected section has been deleted.
   To return to the Title List, press the ▲▼ buttons to select **Finish**.



A-B Erase Screen Elements

① Playback bar
② Playtime
③ Section deletion starting point window and time
④ Section deletion end point window and time

- Select the start and end points of the section you want to delete using the playback related buttons.
- Playback related buttons : (, , , , , ,)

- The length of the section to be deleted must be at least 5 seconds long.
- End point cannot be marked earlier than start point.
- The section cannot be deleted when it includes a still picture.

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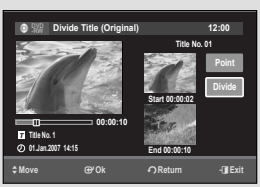
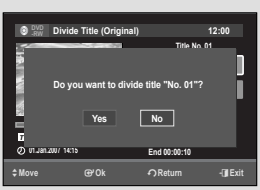
Dividing a title into two (Divide Title)

Follow these instructions to divide a title into two.

DVD-RAM DVD-RW DVD-R DVD+RW

(VR mode)





1. Press the **TITLE LIST** button.
   The Title List screen is displayed.
2. Press the ▲▼ buttons to select a title you want to devide from the Title List, then press the **OK** button.
3. Press the ▲▼ buttons to select **Divide Title**, then press the **OK** button.
   The setting the dividing point screen is displayed.
   The **Point** is selected.
4. Press the **OK** button at the point where you want to divide the title.
   The **Divide** is selected.
5. Press the **OK** button.
   You will be prompted with a confirmation message.
   The Message "Do you want to divide title "No.01"?" is displayed.
   To reset the divinding point, select **No** and press the **OK** button, then repeat from step 4.
   The display also whether to rename the title.
   To use the same name as before, select **No** and press the **OK** button to finish.
6. Press the ◄► buttons to select **Yes**, then press the **OK** button.
   The Title Name screen is displayed.
7. Follow steps 3 to 5 of **Changing the Name of a Title** (page 71) to complete renaming.
   The devided title appears in the Title List with the new name.

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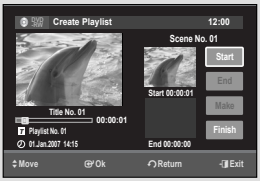
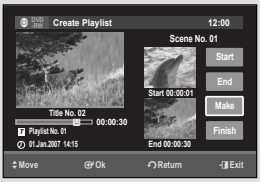
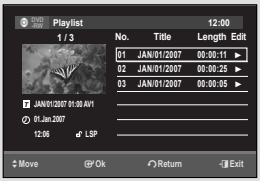
Creating a Playlist

Follow these instructions to create a new playlist title from a recorded title.

DVD-RAM DVD-RW DVD-R
(VR mode)







1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Edit**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Create Playlist**, then press the **OK** button.
   The Create Playlist screen is displayed.
4. Press the **OK** button at the start point.
   - The image and time at the start point are displayed on the Start window.
   - Select the starting point of the section from which you want to create a new scene using the playback related buttons.
   - Playback related buttons : (, , , , ,)
5. Press the **OK** button at the end point.
   - The image and end point time are displayed in the End window.

- To make a new playlist -

6. Press the ▲▼ buttons to select **Make**, then press the **OK** button.
   A new Make Scene screen is displayed.
   A new Scene will be added to the current Playlist.

- You can check and see all the scenes on Edit Playlist screen. (See page 77)
- Repeat steps 1~6 if you want to make a new playlist.
- Repeat steps 4~6 if you want to make scenes of the playlist.

- To return to Edit Playlist menu -

7. Press the ▲▼ buttons to select **Finish**, then press the **OK** button.
   The Edit Playlist screen is displayed.

- You can create up to 99 playlist titles.
- Depending on the kind of disc, the displayed screen may be slightly different.
- A disc that is recorded on this unit cannot be displayed playlist menu if EZ REC MODE set to "On".

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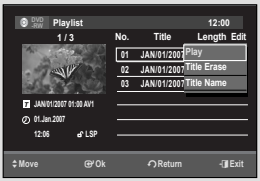
Playing Titles in the Playlist

Follow these instructions to play the playlist titles.



DVD-RAM DVD-RW DVD-R

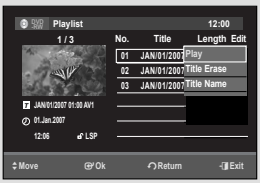
(VR mode)

1. Press the **TITLE LIST** button.
   If the Title list screen is displayed, press the **PLAY LIST** button.
   The Edit Playlist screen is displayed.
2. Press the ▲▼ buttons to select the title you want to play from the Playlist, then press the **OK** button.
3. Press the ▲▼ buttons to select **Play**, then press the **OK** button.
   The playlist titles will be played back.
4. Press the **STOP** button to stop playing.
   The screen returns to the Edit Playlist screen.

▪ When the Title list or Playlist screen is displayed, you can toggle the Title list and Playlist by pressing the **PLAY LIST** button.

Editing a Playlist

Follow these instructions to edit the playlist titles or scenes within then, without changign the actual recordings.



DVD-RAM DVD-RW DVD-R

(VR mode)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Edit**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Edit Playlist**, then press the **OK** button.
   The playlist screen is displayed.
4. Press the ▲▼ buttons to select a Playlist title, then press the **OK** button.
5. Press the ▲▼ buttons to select a desired option, then press the **OK** button.
   - **Play** : Allows you to play a playlist.
   - **Title Erase** : Erase the title.
   - **Title Name** : Allows you to rename the title (See page 71).

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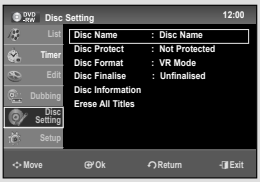
Disc Setting

Editing the Disc Name

Disc Name
12:00
Disc_
A B C D E a b c d e 1 2 3 4 5
F G H I J f g h i j 6 7 8 9 0
K L M N O k l m n o - _ + = .
P Q R S T p q r s t ~ ! @ # $
U V W X Y u v w x y % ^ & ( )
Z z
Backspace Space Delete Clear Finish
Move Ok Return Exit



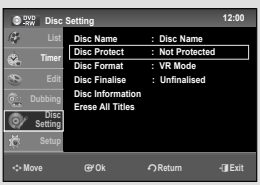
Follow these instructions to give a name to a disc.

DVD-RAM DVD-R DVD-RW DVD+RW DVD+R
(DVD-VR475M only)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Setting**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Disc Name**, then press the **OK** button. The Disc Name screen is displayed.
4. Enter the desired characters using the ▲▼◄ ► buttons.
   - **Back Space** : Deletes the character before the cursor.
   - **Space** : Enters a blank and moves the cursor one forward (to the right).
   - **Delete** : Deletes the character at the cursor position.
   - **Clear** : Deletes all the character inputs.
   - **Finish** : Registers the character inputs.
5. Press the ▲▼◄ ► buttons to select **Finish**, then press the **OK** button. A disc name is given to the disc.

- To edit the disc name, you need to clear disc protection in advance.
- Depending on the kind of disc, the displayed screen may be different.

Disc Protection



DVD-RW DVD-R DVD-RW DVD-RAM
(DVD-VR475M only) (VR Mode)

Disc Protect allows you to protect your discs from being formatted or deleted due to unintended operations.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Setting**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Disc Protect**, then press the **OK** button.
4. Press the ▲▼ button to select **Protected**, then press the **OK** button.

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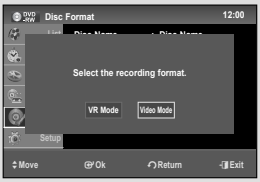
Formatting a Disc



Use these instructions to format a disc.
The Disc Protection should be cleared.

DVD-RW DVD-R DVD+RW
(DVD-VR475M only)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Setting**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Disc Format**, then press the **OK** button.

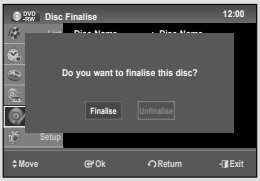
   DVD+RW
   - You will be prompted with the confi rmation message 'All of the data will be erased (even protected titles). Do you want to format this disc?'.

   DVD-RAM/-RW
   - You will be prompted with the confi rmation message 'Select the recording format.' (When using a DVD-RAM disc, you can select VR mode only) You will be prompted with the confi rmation message 'All of the data will be erased (even protected titles). Do you want to format this disc?'.
4. Press the ◄► buttons to select **OK**, then press the **OK** button.
   The disc is formatted.

	DVD-VR mode	DVD-V mode
DISC	DVD-RAM DVD-RW DVD-R	DVD-RW DVD-R

DVD-VR and DVD-V mode are defined according to their recording format.

Finalising a Disc



After you record titles onto a DVD-RW/-R disc with your DVD recorder & VCR, it needs to be finalised before it can be played back on external devices.

DVD-RW DVD-R DVD+RW
(DVD-VR475M only)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Setting**, then press the **OK** button.
3. Press the ▲▼ button to select **Disc Finalise**, then press the **OK** button. You will be prompted with the message 'Do you want to finalise this disc?'
4. Press the ◄ ► buttons to select **Finalise**, then press the **OK** button. You will be prompted again with the message "Disc will be finalised. Do you want to continue?"
5. Press the ◄ ► buttons to select **OK**, then press the **OK** button.
   The disc is finalised.

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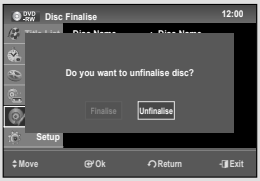
- Once a disc is finalised, you cannot delete titles from the record list.
- After being finalised, the DVD-RW(V mode)/±R operates in the same manner as a DVD-Video.
- Depending on the disc type, the displayed screen may be different.
- Finalising time may be different depending on the amount of data recorded on the disc.
- Data on the disc will be damaged if the recorder is powered off during finalise process.
- You can finalise the disc automatically using EZ Record. (see page 29).

Unfinalising a Disc (V/VR mode)

DVD-RW



1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Setting**, then press the **OK** button.
3. Press the ▲▼ button to select **Disc Finalise**, then press the **OK** button. You will be prompted with the message 'Do you want to unfinalise disc?'.
4. Press the ◄ ► buttons to select **Unfinalise**, then press the **OK** button. You will be prompted again with the message "Disc will be unfinalised. Do you want to continue?"
5. Press the ◄ ► buttons to select **OK**, then press the **OK** button. The disc is unfinalised.

- A DVD-RW can be finalised or unfinalised in V mode.

	Finalise	Unfinalise
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

- A DVD-RW can be finalised or unfinalised in VR mode.

	Finalise	Unfinalise
Mark	DVD-RW(VR:F)	DVD-RW(VR mode)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.

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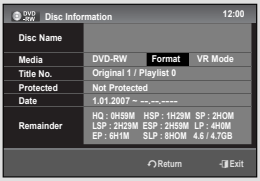
Disc Information

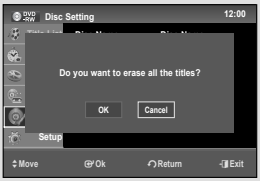


DVD-RAM DVD-RW DVD-R DVD+RW DVD+R

(DVD-VR475M only)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Setting**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Disc Information**, then press the **OK** button.
   The Disc Information is displayed.

Erase All Titles



DVD-RW DVD-R DVD-RW DVD-RAM

(DVD-VR475M only)

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Disc Setting**, then press the **OK** button.
3. Press the ▲▼ buttons to select **Erase All Titles**, then press the **OK** button.
   - You will be prompted with the confirmation message 'Do you want to erase all the titles?'.
   - When Protected Title exists : The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate. If you want to delete a protected title, disable Protect for it on the Lock item.
4. Press the ◄ ► buttons to select **OK**, then press the **OK** button.
   All title lists are deleted.

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Troubleshooting (DVD)

If your product malfunctions, go through the check points below before contacting a Samsung authorized service centre.

Problem	Explanation/Solution
No power.	• Check whether the power cord is securely plugged into the power outlet. • Did you press the ⏻ button of your DVD Recorder & VCR.
The input is displayed for a while when the power turns on.	The DVD Recorder & VCR requires some time to initialise after it is turned on.
Cannot record TV programmes.	• Check whether the power cord is securely plugged into the power outlet. • Did you set the DVD Recorder & VCR programme settings correctly? • Check the free space on your disc. • Check the antenna cable is connected.
Timer recording does not work properly.	• Check the recording time, end time and current time settings again. • Recording will be canceled if the power is interrupted due to a power failure or other reason during recording.
Cannot record.	• Check whether the disc is formatted. This product can record on formatted discs only. • Check whether your disc has a sufficient free space.
I pressed the REC button but there is no response.	If a programme is copy protected, you cannot record it.
I forgot the password for parental lock.	Press and hold the **PLAY** button on the front panel for 5 seconds or more. All settings including password will revert to factory settings. Do not use it if not absolutely required. (Note that this function is available only when there is no disc inserted.)
Cannot play the disc.	• Check whether the disc is inserted correctly with the label facing up. • Check the regional code of your DVD disc. • This DVD Recorder & VCR cannot playback some types of disc.
No sound.	• Are you watching a programme in slow or skip mode? If you are playing a programme at a speed other than normal speed, sound is not output. (You can hear sound during forward search (FF1) in DVD-VIDEO.) • Check the connections and initial settings. • Check whether the disc is damaged. Clean up the disc, if necessary. • Check whether the disc is inserted correctly with the label facing up.

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Troubleshooting (DVD)

Problem	Explanation/Solution
⊘ icon appears on the screen.	You cannot use the operation or function due to one of the following reasons: (1) Your DVD disc does not support the feature (for example, angles) (2) You've requested a title, chapter, or scan time that is out of the correct range.
Play mode settings are different from the settings configured with the Setting menu.	The disc does not support all the selected functions. In this case, some settings you configure on the Setting menu may not work properly.
Cannot change the aspect ratio.	Aspect ratio is fixed for DVD disc.
No audio output.	Check whether you selected correct digital output options in the Audio Output Options menu.
No video or audio output. The disc tray is ejected after 2 to 5 seconds.	Did you move your DVD Recorder & VCR suddenly from a cold place to a warm place? In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play again. It will work properly when condensation has evaporated.
Angle operation does not work during playback of a DVD disc.	Angle operation is available only when the disc contains images captured at different angles.
The disc revolves, but no image or bad quality images are output.	• Check whether there is damage or foreign materials on your disc. • Some discs with bad manufacturing quality may not be played back. • If the scene changes from dark to bright suddenly, the screen may jitter temporarily, but it is not a defect.
Desired audio language and subtitle language are not played.	Audio languages and subtitle languages are disc-specific. Only the sound and subtitle languages contained on a DVD disc are available and displayed on the disc menu.
No progressive output.	• Check whether PS ◯ is displayed on front panel.
The remote control doesn't work.	• Point the remote control at the remote control sensor on your DVD Recorder & VCR. Operate within distance. (15ft) Remove obstacles between your DVD Recorder & VCR and remote control. • Check whether the batteries are depleted
Other problems	• Read the table of contents and then find and read the sections describing your problem, and follow the directions given. • Turn the unit off and on. • If your problem still persists, contact your nearest Samsung service centre.

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Troubleshooting (VCR)

Before contacting a Samsung authorized service centre, perform the following simple checks.

Problem	Explanation/Solution
No power	• Check that the power plug is connected to a wall outlet. • Have you pressed the ⏻ button?
You cannot insert a video cassette	• A video cassette can only be inserted with the window side up and the safety tab facing you.
The television programme was not recorded	• Check the DVD Recorder & VCR antenna connections. • Is the DVD Recorder & VCR tuner properly set? • Check if the safety tab is intact on the cassette.
Timer recording was unsuccessful	• Re-check the recording start/stop time settings and the current time • Check whether you inserted a tape which has enough time to record
No playback picture or the picture is distorted	• Check to see if you are using a prerecorded tape.
You cannot see normal broadcasts **Noise bars or streaks on playback**	• Check the tuner/external setting. It should be on tuner. • Check the TV antenna connections. • Press the **PROG/TRK** (∧/ ∨) buttons to minimize this effect.
When the ⏯ button is pressed during playback, the still picture has severe "noise bar" streaks	• A still picture may have "noise bars", depending on the condition of the tape. Press the **PROG/TRK** (∧ / ∨) buttons during slow motion to minimize this effect.
Video Head Cleaning	• If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads.

If you are unable to solve the problem after reading the above instructions, note:

- **The model and serial number on the rear of your DVD Recorder & VCR**
- **The warranty information**
- **A clear description of the problem**

Then contact your nearest SAMSUNG authorized service centre.

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Specifications

General	Power requirements	AC 220 - 240V, 50Hz
	Power consumption	37 Watts/4Watts(Standby mode)
	Weight	4.4Kg
	Dimensions	430(W) x 331(D) x 79(H)
	Operating temp.	+5°C to +35°C
	Other conditions	Keep level when operating. Less than 75% operating humidity
Input	Video input (Rear)	Euro Scart socket : 1.0Vp-p(unbalanced) 75Ω
	Audio input (Rear)	Euro Scart socket : -8dBm, 47Kohm unbalanced
	Front input	RCA jack, DV (DVD-VR475M only)
Output	Audio (DVD, VCR)	RCA jack, Euro Scart socket, Audio L/R
	Audio (DVD only)	Digital audio out COAXIAL
	Video (DVD, VCR)	RCA JACK (composite) : 1,0Vp-p, 75Ω Component out : Y : 1,0Vp-p, Pb : 0,70Vp-p, Pr : 0,70Vp-p, 75Ω Euro Scart socket (composite) : 1,0Vp-p, 75Ω (RGB) : R : 0,70Vp-p, G : 0,70Vp-p, G : 0,70Vp-p, 75Ω HDMI output [480p, 720p, 1080i, 1080p] (DVD-VR475M only)
VCR	Tape format	VHS type video tape
	Colour system	PAL, DVB-T
	Tuning system	I
	Video S/N	Above 43dB (standard recording)
	Resolution	Above 240 lines (standard recording)
	Audio S/N	Above 68dB (Hi-Fi), 39dB (Mono)
DVD	Audio frequency characteristics	20Hz-20KHz (Hi-Fi)
	Picture Compression format	MPEG-II
	Audio Compression format	Dolby AC-3 256kbps
	Recording Quality	HQ(Approx. 1 hour), HSP(Approx. 1 hour 30 minutes), SP(Approx. 2 hours), LSP(Approx. 2 hours 30 minutes), ESP(Approx. 3 hours), LP(Approx. 4 hours), EP(Approx. 6 hours), SLP(Approx. 8 hours)
	Video S/N	Ratio Min. 50dB at standard recording
	Audio S/N	Ratio Min. 75dB
	Audio frequency characteristics	20 Hz ~ 20 KHz

Audio Output For DVD discs, audio signals recorded at 96 kHz sampling frequency are converted into and output at 48 kHz.

Disc Type	DVD	AUDIO CD(CD-DA)
Analogue Audio Output	48 / 96 kHz	44,1 kHz
Digital Audio Output	48 kHz	44,1 kHz

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UNITED KINGDOM

REPUBLIC OF IRELAND

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.
However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned.
In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Customer Care Centre
PO Box 17243
Edinburgh, EH11 4YB
United Kingdom
Tel : 0870 SAMSUNG (7267864),
Fax : 0870 7221127 (United Kingdom)
Tel : 0818 717 100,
Fax : +44 (0)870 7221127 (Republic of Ireland)
Web : www.samsung.com/uk

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imburse-ment will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
   a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
   b) Cost relating to transport, removal or installation of the product.
   c) Misuse, including the faiure to use this product for its normal purposes or incorrect installation.
   d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

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Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Region	Country	Customer Care Centre	Web Site
North America	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421 , 4004-0000	www.samsung.com
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	
	HONDURAS	800-7919267	
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
Europe	BELGIUM	0032 (0)2 201 24 18	www.samsung.com/be
	CZECH REPUBLIC	844000844 Distributor pro Českou republiku: Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4	www.samsung.com/cz
	DENMARK	70 70 19 70	www.samsung.com/dk
	FINLAND	030-6227 515	www.samsung.com/fi
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	GERMANY	01805 - SAMSUNG(726-7864) (€ 0,14/Min)	www.samsung.com
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	ITALIA	800-SAMSUNG(726-7864)	www.samsung.com
	LUXEMBURG	0035 (0)2 261 03 710	www.samsung.com/be
	NETHERLANDS	0900-SAMSUNG(726-7864) (€ 0,10/Min)	www.samsung.com/nl
	NORWAY	815-56 480	www.samsung.com/no
	POLAND	0 801 801 881 , 022-607-93-33	www.samsung.com/pl
	PORTUGAL	80820-SAMSUNG(726-7864)	www.samsung.com/pt
	SLOVAKIA	0800-SAMSUNG(726-7864)	www.samsung.com/sk
	SPAIN	902 10 11 30	www.samsung.com
	SWEDEN	0771-400 200	www.samsung.com/se
	U.K	0845 SAMSUNG (7267864)	www.samsung.com
	EIRE	0818 717 100	www.samsung.com/ie
	AUSTRIA	0800-SAMSUNG(726-7864)	www.samsung.com/at
	SWITZERLAND	0800-SAMSUNG(726-7864)	www.samsung.com/ch
CIS	RUSSIA	8-800-555-55-55	www.samsung.com
	KAZAHSTAN	8-10-800-500-55-500	www.samsung.kz
	UZBEKISTAN	8-10-800-500-55-500	www.samsung.uz
	KYRGYZSTAN	00-800-500-55-500	
	TADJIKISTAN	8-10-800-500-55-500	
	UKRAINE	8-800-502-0000	www.samsung.com
	LITHUANIA	8-800-77777	www.samsung.lt
	LATVIA	800-7267	www.samsung.com/lv
	ESTONIA	800-7267	www.samsung.ee
Asia Pacific	AUSTRALIA	1300 362 603	www.samsung.com
	NEW ZEALAND	0800SAMSUNG(726-7864)	www.samsung.com/nz
	CHINA	800-810-5858 , 010-6475 1880	www.samsung.com
	HONG KONG	3698-4698	www.samsung.com/hk
	INDIA	3030 8282 , 1800 110011	www.samsung.com
	INDONESIA	0800-112-8888	www.samsung.com
	JAPAN	0120-327-527	www.samsung.com/jp
	MALAYSIA	1800-88-9999	www.samsung.com/my
	PHILIPPINES	1800-10-SAMSUNG(726-7864)	www.samsung.com/ph
	SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com
	THAILAND	1800-29-3232 , 02-689-3232	www.samsung.com
	TAIWAN	0800-329-999	www.samsung.com/tw
	VIETNAM	1 800 588 889	www.samsung.com
Middle East & Africa	TURKEY	444 77 11	www.samsung.com
	SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com
	U.A.E	800-SAMSUNG (726-7864), 8000-4726	www.samsung.com

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Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)
This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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